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Pomona College

Annual Catalog

1922-1923



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Pomona College

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TEACHERS FOR THE YEAR
1922 - 1923, REQUIREMENTS
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OF COURSES AND GENERAL
INFORMATION

November, 1922

CLAREMONT, CALIFORNIA
Published by the College

1923														1924													
JANUARY							JULY							JANUARY													
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COLLEGE CALENDAR

1922

September 18, <i>Monday</i>	}	Registration Days. Monday and
September 19, <i>Tuesday</i>		Tuesday, examinations for en-
September 20, <i>Wednesday</i>		trance.
September 20, <i>Wednesday</i>		Convocation, 10:30 a. m.
October 14, <i>Saturday</i>		Founders Day.
November 30, <i>Thursday</i>		Thanksgiving Day.
December 19, <i>Tuesday</i>		Christmas Recess begins, 4:30

p. m.

1923

January 9, <i>Tuesday</i>		Christmas Recess ends, 7:30 a. m.
January 22, <i>Monday</i>	}	Kinney Freshman Contest in
		Declamation, 8 p. m.
February 2, <i>Friday</i>	}	Mid-year Examinations.
to		
February 10, <i>Saturday</i>		
February 10, <i>Saturday</i>		First Semester ends.
February 12, <i>Monday</i>	}	Registration Day for under-
		classmen and specials.
February 13, <i>Tuesday</i>	}	Registration Day for upper-
		classmen and graduates.
February 22, <i>Thursday</i>		Washington's Birthday.
March 1, <i>Thursday</i>		Matriculation Day.
April 4, <i>Wednesday</i>		Spring Recess begins, 4:30 p. m.
April 12, <i>Thursday</i>		Spring Recess ends, 7:30 a. m.
May 30, <i>Wednesday</i>		Memorial Day.
June 6, <i>Wednesday</i>	}	Final Examinations.
to		
June 14, <i>Thursday</i>		
June 18, <i>Monday</i>		Commencement.

SUMMER VACATION

September 17, <i>Monday</i>	}	Registration Days. Monday and
September 18, <i>Tuesday</i>		Tuesday, examinations for en-
September 19, <i>Wednesday</i>		trance.
September 19, <i>Wednesday</i>		Convocation, 10:30 a. m.

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HISTORICAL SKETCH

THE history of the development of Southern California from a land sparsely inhabited and apparently fit only for a cattle range, into a genuine American commonwealth with its multitude of prosperous communities, covers hardly forty years; but this brief span of time has been a period of intense activity and remarkable growth. This epoch of swift progress was inaugurated by the completion of a second trans-continental railway, in this case piercing Southern California directly from the East, together with the sudden awakening to a realization of the great agricultural possibilities of the section through irrigation. A large immigration and a rapid increase in land values were at once induced. New towns sprang up almost in a day and great industrial projects characteristic of such a period were at once inaugurated.

While the commercial and speculative interests were conspicuously in evidence there were among the new settlers, nevertheless, many whose chief concern was for the higher values of life and character. Not least among these were those whose former affiliations had been with New England and its institutions. The Southern California District Association of Congregational Churches, meeting in San Bernardino in 1882, agitated the question of founding a college of the New England type. In 1886 the Association met at Lugonia (now Redlands), when the report of the educational committee was an earnest appeal for such a college. At this meeting a larger educational committee than usual was appointed and was instructed to view locations and invite proposals of aid toward establishing a "Christian College of the New England Type." In accordance with these instructions the committee visited various places from which they had received offers of aid and gave the matter serious and careful consideration.

In May, 1887, the District Association met in Los Angeles and became the General Association of Southern California. This General Association immediately gave full power to its committee of education, not only to select the College site, but to appoint trustees for the prospective institution. Fifteen trustees, two of whom are still members of the board, were duly appointed; the College was incorporated October 14, 1887, under the name of The Pomona College; and a site was selected about four miles north of the city of Pomona.

For the immediate needs of the College a small private house was rented in Pomona, and in it the work of instruction was begun in September, 1888. In the following January an unfinished hotel in Claremont (now Sumner Hall), together with considerable land adjacent, was given to the College and the work was transferred to that place. It was originally supposed that this location would be temporary; the name of the College was therefore retained in the expectation that ultimately the site originally selected would be used. Later this plan was abandoned and Claremont was made the permanent seat of the College. By this time, however, the name of "Pomona College" had become so definitely fixed that it has been retained notwithstanding the change of location.

The growth of the College has been swift and constant. The first class was graduated in 1894, at which time the total number of college students was forty-seven. For some time the work of the Preparatory School was of large importance, but later on this was discontinued owing to the increased growth and importance of the College. The maximum number which can now be received is 750. This situation allows the College to accept only two hundred Freshmen, one hundred men and one hundred women, and at the present time compels the rejection of a large number of applications. The original campus of about twelve acres has been enlarged by purchase and by gifts until it now comprises approximately one hundred and fifty acres; and this area, together

with its buildings, is being developed according to plans carefully worked out by competent landscape gardeners and architects, the whole growth being in accord with one harmonious plan. All this rapid progress of the institution has been made possible by a most generous company of friends who have responded nobly to the calls of higher Christian education and to the needs of young people. From the very beginning the institution has been the creation of sacrifice, affection and idealism. To a remarkable degree the College has been made possible by a great democracy of high-minded givers, and the character of these benefactors is reflected in the daily life and procedure of the College.

While the College was originally Congregational in organization, it long ago made itself the servant of a wider fellowship. The Board of Trustees is a self-perpetuating body, absolutely free from ecclesiastical control and representing different communions, but obliged, nevertheless, by the College Charter to maintain the institution as truly Christian, though unsectarian. From the first it has been the policy of all concerned in the administration of the institution to maintain a high standard of college life and work, and to put the emphasis upon quality in the development of strong and serviceable Christian manhood and womanhood. Thus the purpose for which the College was founded is expressed in its motto, "*Our Tribute to Christian Civilization.*"

BOARD OF TRUSTEES

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CHARLES E. WALKER, <i>Second Vice-President</i>	Los Angeles
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WILLIAM S. MASON	Evanston, Ill.
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DELL A. SCHWEITZER	Los Angeles
CHARLES E. WALKER	Los Angeles

Term of Office Expires June, 1924

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FRED M. WILCOX	Lamanda Park

Term of Office Expires June, 1925

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LLEWELLYN BIXBY	Long Beach
C. STANLEY CHAPMAN	Fullerton
ELI P. CLARK	Los Angeles
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GEORGE W. MARSTON	San Diego

Term of Office Expires June, 1926

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JAMES S. EDWARDS	Redlands
RT. REV. JOSEPH H. JOHNSON, D.D.	Los Angeles
FREDERICK W. LYMAN	Pasadena
ARTHUR J. MCFADDEN	Santa Ana
BUTLER A. WOODFORD	Claremont

Term of Office Expires June, 1927

ARTHUR S. BENT	Los Angeles
EDWIN F. HAHN	Pasadena
STEPHEN H. HERRICK	Riverside
SEELEY W. MUDD	Los Angeles
WILLIAM O. WARK	Claremont

ERNEST E. JONES, <i>Treasurer</i>	Claremont
GEORGE S. SUMNER, <i>Controller</i>	Claremont

COMMITTEES OF THE BOARD

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CHARLES E. HARWOOD

DELL A. SCHWEITZER

CHARLES E. WALKER

BUTLER A. WOODFORD

Investments

CHARLES E. WALKER

A. J. CROOKSHANK

ELI P. CLARK

FRED M. WILCOX

ERNEST E. JONES

Ways and Means

WILLIAM O. WARK, *Chairman*

ARTHUR S. BENT

JAMES S. EDWARDS

LLEWELLYN BIXBY

FRANK H. HARWOOD

JAMES A. BLAISDELL

ARTHUR J. McFADDEN

C. STANLEY CHAPMAN

SEELEY W. MUDD

A. J. CROOKSHANK

DELL A. SCHWEITZER

JOHN M. CURRAN

W. R. H. WELDON

FRED M. WILCOX

LOUISE BILLINGS, *Secretary*

Education

JAMES A. BLAISDELL

WILLIAM O. WARK

LLEWELLYN BIXBY

HENRY K. BOOTH

EDWIN F. HAHN

Buildings and Grounds

CHARLES B. SUMNER

GEORGE W. MARSTON

WILLIAM S. MASON

Nominations

DONALD G. APLIN

LLEWELLYN BIXBY

FREDERICK W. LYMAN

FACULTY

JAMES ARNOLD BLAISDELL 345 College Ave.
*President, 1910**

B.A., Beloit College; M.A., Beloit College; D.D., Beloit College.
 Graduate, Hartford Theological Seminary.

CYRUS GRANDISON BALDWIN Palo Alto
President Emeritus, 1890

B.A., Oberlin College; M.A., Oberlin College. Student, Andover
 Theological Seminary; D.D., Oberlin College.

EDWIN CLARENCE NORTON¹ 137 W. Seventh St.
*Dean of the Faculty and Professor of the Greek
 Language and Literature on the Edwin Clarence Norton
 Foundation, 1888*

B.A., Amherst College; M. A., Amherst College and Yale Univer-
 sity; Ph.D., Carleton College; D.D., Pacific Theological Seminary.
 Graduate Student, Johns Hopkins, Columbia and Oxford Univer-
 sities.

FRANK PARKHURST BRACKETT 270 E. Third St.
*Acting Dean of the Faculty, Professor of Mathematics on
 the Frank Parkhurst Brackett Foundation and Director
 of the Observatory, 1888*

B.A., Dartmouth College; M.A., Dartmouth College. Honorary
 Fellow, Clark University.

PHEBE ESTELLE SPALDING 261 W. Fifth St.
*Professor of English Literature on the Phebe Estelle
 Spalding Foundation, 1889*

B.L., Carleton College; M.L., Carleton College; Ph.D., Boston
 University.

DANIEL HERBERT COLCORD 157 E. Seventh St.
Professor of the Latin Language and Literature, 1890

B.A., Amherst College; M.A., Amherst College; B.D., Andover
 Theological Seminary. Graduate Student, Harvard University.

ARTHUR DART BISSELL 319 Harvard Ave.
Professor of German, 1892

B.A., Amherst College; M.A., Amherst College; B.D., Yale Uni-
 versity; Ph.D., Yale University. Graduate Student, University of
 Leipzig.

GEORGE GALE HITCHCOCK 721 College Ave.
Professor of Physics, 1892

B.A., University of Nebraska. Graduate Student, Johns Hopkins
 and Cornell Universities.

*The date in each case denotes the beginning of original term of
 service.

¹Absent on leave, first semester, 1922-1923.

- CHARLES CUMMINGS STEARNS** 146 E. Tenth St.
*Professor of Biblical History and Literature on the
 Nancy M. Lyon Foundation, 1906*
 B.A., Yale University; M.A., Yale University; B.D., Union Theo-
 logical Seminary. Graduate Student, University of Berlin.
- GRACE ELLA BERRY** 541 Harvard Ave.
*Dean of Women and Assistant Professor of Mathe-
 matics, 1909*
 B.S., Mount Holyoke College; M.A., Mount Holyoke College.
- JAMES ALEXANDER LYMAN** 833 Indian Hill Blvd.
Professor of Chemistry, 1909
 B.A., Beloit College; M. A., Beloit College; Ph.D., Johns Hopkins
 University. Graduate Student, University of Chicago.
- MILTON ERASTUS CHURCHILL** 507 Yale Ave.
*Secretary of the Faculty and Associate Professor of
 German, 1902*
 B.A., Knox College; M. A., Knox College; Litt.D., Knox College;
 B.D., Yale University. Graduate Student, University of Leipzig.
- MENDAL GARBUTT FRAMPTON¹** 927 Harvard Ave.
Professor of the English Language, 1904
 B.A., Illinois College; M.A., Illinois College; M.A., Harvard Uni-
 versity. Graduate Student, Harvard and Chicago Universities.
- CHARLES GRACCHUS NEELY** 739 College Ave.
Professor of Constitutional History and Law, 1911
 B.L., University of Illinois.
- WILLIAM ATWOOD HILTON²**
*Professor of Zoology on the Willard George Halstead
 Foundation, 1905*
 B.S., Cornell University; Ph.D., Cornell University.
- JAMES GEORGE NEEDHAM** 1264 Dartmouth Ave.
Exchange Professor of Zoology, 1922
 B.S., Knox College; M.S., Knox College; Ph.D., Cornell University;
 Litt.D., Knox College. Professor of Zoology, Cornell University.
- ROBERT DAY WILLIAMS** 260 E. Seventh St.
*Professor of Philosophy and Experimental Psychology,
 1909*
 B.S., Pomona College; M.A., Yale University; Ph.D., Yale Uni-
 versity. Graduate Student, University of California.
- BERNARD CAPEN EWER¹**
Professor of Psychology, 1916
 B.A., Brown University; M.A., Brown University; Ph.D., Harvard
 University.

¹Absent on leave, first semester, 1922-1923.

²Exchange Professor, Cornell University, 1922-1923.

RALPH HAINE LYMAN

357 W. Tenth St.

*Professor of Applied Music and Instructor in Singing,
Head of Department of Music, 1917*

B.A., Grinnell College. Student in voice with Karleton Hackett, William B. Olds, Grant Hadley, Arthur Middleton, Courtland Cooper, Holmes Cowper and other American masters and with Vittorino Moratti in Berlin.

MARO BEATH JONES

807 College Ave.

Professor of Romance Languages, 1911

B.A., Boston University; M.A., Boston University. Graduate Student, Universities of Chicago, Geneva and Barcelona. Student, Estudis Universitaris Catalans, Barcelona.

WILLIAM EVAN NICHOLL

627 Indian Hill Blvd.

Dean of the College and Assistant Professor of Education, 1919

B.A., Bellevue College; M.A., Teachers College, Columbia University. Graduate Student, Edinburgh University.

HOMER ELMER ROBBINS

487 Harrison Ave.

Professor of Classical History and Language, 1915

B.A., University of Michigan; M.A., University of Michigan; Ph.D., University of Michigan. Graduate Student and holder of University and Buhl Classical Fellowships, University of Michigan.

WALDEMAR CHRISTIAN WESTERGAARD¹

*Professor of History on the Warren F. Day Foundation,
1916*

B.A., University of North Dakota; M.L., University of California; Ph.D., University of California. Fellow in History, Cornell University.

ROBERT CHARLES DENISON

232 W. Fifth St.

Professor of Philosophy, 1920

B.A., Amherst College; D.D., Amherst College.

WESLEY FROST AYER

346 Harvard Ave.

Professor of Military Science and Tactics, and Commanding Officer Reserve Officers' Training Corps, 1920

B.A., Beloit College; M.A., University of Wisconsin. Major, Infantry, U. S. A.

RAYMOND CUMMINGS BROOKS

489 W. Sixth St.

Professor of Religion, 1921

B.A., Tabor College; B.D., Yale Divinity School; D.D., Tabor College and Whitman College. Graduate Student, Oberlin College.

BRUCE McCULLY

236 College Ave.

Professor of English Literature, 1921

B.A., Hiram College; M.A., University of Chicago; Ph.D., Harvard University.

¹Absent on leave, 1922-1923.

WALTER EARLE HARTLEY 127 W. Eighth St.

Professor of Organ and Piano, 1915

B.A., Yale University; B.Mus., Yale University. Associate, American Guild of Organists. Pupil of Widor, in Organ and Composition, and of Stubbs.

WILLIAM KIRK 153 W. Ninth St.

Acting Professor of Social Science, 1922

B.A., Johns Hopkins University; Ph.D., Johns Hopkins University.

WILLIAM POLK RUSSELL 506 E. Sixth St.

Associate Professor of Mathematics on the Joseph W. Fiske Foundation, 1904

B.A., Cumberland University; M.A., Cumberland University. Graduate Student, Columbia and Yale Universities.

ARTHUR VOLNEY STOUGHTON 146 W. Seventh St.

Associate Professor of Physiology and Hygiene, and College Physician, 1911

B.A., Pomona College; M.D., Ohio Medical University. Graduate Student, Medical Department of Johns Hopkins University and Medical School of Harvard University. Student, Laboratories of Friedrichshain Krankenhaus and Private Laboratory of Professor Pick, Berlin. Resident Physician, Protestant Hospital, Columbus, O.

HANNAH TEMPEST JENKINS Claremont Inn

Associate Professor of Art and Design, 1905

Graduate, Teachers College, Columbia University. Student, Philadelphia Academy of Fine Arts. Pupil of Jean Paul Laurens, Constant and St. Pierre in figure and portrait, of Henry Thompson in landscape, and of Wm. M. Chase, Robert Vonnoh and Cecilia Beaux in portrait. Paris Salonist, 1889.

EDWARD PAYSON BARTLETT 135 E. Ninth St.

Associate Professor of Chemistry, 1909

B.A., Dartmouth College; M.A., Harvard University; Ph.D., Harvard University. Graduate Student, Columbia University.

VICTOR EDWARD MARRIOTT 116 E. Twelfth St.

Librarian, 1912

B.A., Beloit College; M.A., University of California. Graduate Student, Yale University.

WALTER ALFRED ALLEN 1244 College Ave.

Associate Professor of Musical Theory and Appreciation, and Instructor in Organ, 1912

B. A., Beloit College; B.Mus., Yale University. Associate, American Guild of Organists.

ROBERT TRESILIAN BELCHER 452 W. Sixth St.

Assistant Professor of Mathematics and Engineering, 1907

B.A., Queen's University. Graduate Student, Queen's College and University of California.

CARL PETER SCHOTT 746 Harvard Ave.

Assistant Professor of Physical Education for Men, 1916

B.E., Nebraska State Normal School; B.P.E., Young Men's Christian Association College, Springfield, Massachusetts. Graduate Student, Purdue University.

EUGENE WHITE NIXON 1034 Harvard Ave.

Assistant Professor of Physical Training for Men, 1916

B.A., Monmouth College. Graduate Student, University of Illinois.

PHILIP ALEXANDER MUNZ 140 W. Seventh St.

Assistant Professor of Botany on the Henry Kirke White Bent Foundation, 1917

B.A., University of Denver; M.A., University of Denver; Ph.D., Cornell University. Graduate Student, University of Chicago.

AMANDUS ZOELLNER Los Angeles

Assistant Professor of Violin, 1918

GEORGE SAMUEL BURGESS 154 E. Tenth St.

Assistant Professor of Political Economy, 1918

B. A. University of Michigan; J.D., University of Michigan.

FRANK DAVID THOMSON 640 Indian Hill Blvd.

Assistant Professor of Accounting and Commercial Subjects, 1918

B.A., Knox College; M.A., Knox College. Graduate Student, Johns Hopkins University.

CHARLES TABOR FITTS 137 College Ave.

Acting Registrar and Assistant Professor of English, 1919

B.A., Amherst College. Graduate Student, University of California.

ALFRED OSWALD WOODFORD 639 Yale Ave.

Assistant Professor of Geology, 1915

B.A., Pomona College. Graduate Student, University of California.

ARMANDO THOMAS BISSIRI 709 College Ave.

Assistant Professor of Romance Languages, 1920

Liceo Mamiani, Rome. Dottore in Giurisprudenza, Royal University, Rome.

ALICE EVANS 618 Harvard Ave.

Assistant Professor of Physical Education for Women, 1920

B. A., Smith College. Graduate Student, Wellesley College.

CLYDE SHELDON SHEPARD 246 E. Third St.

Assistant Professor of Oral Address and Director of Dramatics, 1920

B.A., University of Missouri; LL.B., University of Chattanooga;
B.O., National School of Elocution and Oratory, Philadelphia;
M.A., University of Southern California.

EDWARD TAYLOR 370 W. Twelfth St.

Assistant Professor of Mechanics, 1920

C.E., University of Minnesota. Graduate Student, University of Oregon.

CLIFFORD NOTT HAND 1122 College Ave.

Director of Religious Interests, 1919

B.L., Pomona College; B.D., Pacific School of Religion. Graduate Student, University of California.

ARTHUR BABCOCK 1133 Yale Ave.

Assistant Professor of Singing, 1921

Graduate of the New England Conservatory of Music. Student in Voice with Charles A. White, member of faculty of the New England Conservatory of Music, and with Sbriglia, Dubulle and Fugere in Paris.

EDWARD KAMINSKI 250 E. Ninth St.

Assistant Professor of Art, 1921

Student, St. Bonaventure College; Wisconsin School of Art and Parsons School, New York. Pupil of Frederick Fersman in Oil Painting.

LAWRENCE DURKEE ANDREWS 245 W. Tenth St.

Assistant Professor of Piano, 1922

B.Mus., Lincoln-Jefferson University. Associate, American Guild of Organists. Graduate, Indianapolis Conservatory of Music. Student in Piano with Vernon Spenser, in Organ with Clarence Eddy, in Composition with Orlando A. Mansfield and Percy Goetschius.

RICHARD HENRY PIATT 118 E. Eighth St.

Acting Assistant Professor of History, 1922

B. S. College of the Pacific; B.A., Stanford University; M.A., Stanford University.

JOHN EDWIN GROSE Tenth St. and Columbia Ave.

Assistant Professor of Military Science and Tactics, 1922

B.A., University of West Virginia. Captain, Infantry, U. S. Army.

MABLE CLAIR WEST 1016 Columbia Ave.

Instructor in Piano, 1905

B.S., Pomona College. Graduate Student, Peabody Conservatory of Music, Baltimore.

ALMA MOZELLE ANDERSON 1228 College Ave.

Instructor in Romance Languages, 1919

B.A., Colorado College. Graduate Student, University of California.

- ROSA FRIEDA BISSIRI** 709 College Ave.
Instructor in French, 1920
 B.A., Kreuzlingen College, Switzerland.
- WALTER ROSS LIVINGSTON** 1248 College Ave.
Instructor in Economics and History, 1920
 B.A., Knox College; M.A., University of Missouri.
- RUTH CHANDLER** 727 Yale Ave.
Instructor in Physical Education for Women, 1921
 B.A., Stanford University. Graduate Student, Wellesley College.
- HOMER CAMPBELL CHANEY** 1278 Yale Ave.
Instructor in Economics, 1921
 B.A., Pomona College.
- EDITH MARGUERITE HITCHCOCK** 721 College Ave.
Instructor in Public School and Elementary Music, 1921
 B.A., Pomona College.
- MARION MATHESON** 727 Yale Ave.
Instructor in French, 1921
 B.A., Beloit College. Student in France and other European countries.
- JOHN ORN ROADY** 1030 Dartmouth Ave.
Instructor in Military Science and Tactics, 1921
 First Lieutenant, Infantry, U. S. Army. Graduate, Physical and Bayonet Training Course, Infantry School, Camp Benning, Georgia.
- COLVIN HEATH** (Pomona) 867 W. Third St.
Instructor in Physical Education for Men, 1922
 B.A., Pomona College.
- DE CALVUS WILLIAM SIMONSON** 135 E. Ninth St.
Instructor in English, 1922
 B.A., Harvard University; M.A., Harvard University.
- MABEL DE FOE** 169 W. Seventh St.
Instructor in Chemistry, 1922
 B. A., Drury College.
- FREDERICK LYNN WEAVER** Eighth St. and Oak Pl.
Instructor in English, 1922
 B.A., Pomona College.
- ELEANOR LEE** 337 Harvard Ave.
Instructor in Singing, 1922
 B.A., Pomona College.

- CONSTANCE KILLAM GREENE 169 W. Seventh St.
Instructor in Physical Education for Women, 1922
 Graduate, Boston School of Physical Education.
- FRANCIS EDWARD BLACET 119 College Ave.
Instructor in Chemistry, 1922
 B.A., Pomona College.
-

LECTURERS, 1922-1923

- ARLOW BURDETT STOUT 307 W. Seventh St.
Lecturer on Horticulture
 B.A., University of Wisconsin; Ph.D., Columbia University.
- ALFRED MARSTON TOZZER Cambridge, Mass.
Harvard Exchange Professor of Anthropology
 B.A., Harvard University; Ph.D., Harvard University.
- CAROLINE RICE DYER 137 W. Seventh St.
Lecturer on First Aid
 B.L., Mount Holyoke.
- CHARLES LEROY LOWMAN, M.D. Los Angeles
Lecturer on Orthopaedics
-

ASSOCIATE FACULTY IN RESIDENCE
1922-1923

- MRS. GRACE CHANDLER STANLEY Ontario
 B.A., Stanford University.
Education
- ERNEST WILLIAM FISCHER 2151 N. Laurel Ave., Upland
 B.A., Pomona College.
Education
- WALTER A. HALL
 B.A., University of Southern California.
Education
-

TEACHING FELLOWS

- PAUL ARCHELAUS RUSSELL 506 E. Sixth St.
Music
 B.A., Pomona College.
- HERBERT ARTHUR WOODRUFF 344 Yale Ave.
History
 B.A., Pomona College.

ADMINISTRATIVE OFFICERS OF FACULTY

JAMES ARNOLD BLAISDELL, D.D., President's Rooms <i>President</i>	Chemistry Building
EDWIN CLARENCE NORTON ¹ PH.D. <i>Dean of the Faculty</i>	Room 3, Holmes Hall
WILLIAM EVAN NICHOLL, M.A., <i>Dean of the College and Acting Director of the School of Education</i>	Rooms 7-10, Holmes Hall
GRACE ELLA BERRY, M.A. <i>Dean of Women</i>	Chemistry Building
MILTON ERASTUS CHURCHILL, LITT.D. <i>Secretary of the Faculty</i>	Chemistry Building
FRANK PARKHURST BRACKETT, M.A. <i>Director of the Observatory and Acting Dean of the Faculty</i>	The Observatory
CHARLES TABOR FITTS, B.A. <i>Acting Registrar and Chairman of Committee on Admission</i>	Rooms 7-10, Holmes Hall
VICTOR EDWARD MARRIOTT, M.A. <i>Librarian</i>	Library
MARION JEANETTE EWING ² M.A. <i>Assistant Librarian</i>	Library
ROBERT JAMES BERNARD, B.A. <i>Executive Secretary</i>	Chemistry Building
KATHERINE ROMEL WOODS, B.A. <i>Acting Assistant Librarian</i>	807 College Ave.
LEAVITT OLDS WRIGHT, B.A. <i>Assistant to the President</i>	Chemistry Building
GEORGE DERWOOD BAKER, B.A. <i>Assistant Freshman Class Adviser</i>	Rooms 7-10, Holmes Hall

¹Absent on leave, first semester, 1922-1923.²Absent on leave, 1922-1923.

CLASS OFFICERS

GENERAL	JUNIOR
Mr. Nicholl	Messrs. Robbins and Brooks, first semester; Messrs. Robbins and Ewer, second semester
SENIOR	SOPHOMORE
Messrs. Brackett and Bartlett	Messrs. McCully and Munz
FRESHMAN	
Mr. Fitts, Miss Berry, Mr. Baker	

COMMITTEES OF THE FACULTY

(With Place and Time of Meeting)

- ADMISSION—Messrs. Fitts, Nicholl, Miss Berry. On call.
- BUILDINGS AND GROUNDS—Messrs. Stearns, Munz, Belcher. On call.
- CLASSIFICATION—Messrs. Fitts, Brackett, Williams, Miss Berry. Room 10. 3:15 p. m., Friday.
- COLLEGE LIFE—Mr. Nicholl, Miss Berry, Messrs. Hartley, Fitts, Woodford, Miss Evans. Room 9. 10:15 a. m., Tuesday.
- COURSES OF STUDY—Messrs. Burgess, J. A. Lyman, McCully, Nicholl, Fitts. Room 14. 11:15 a. m., Tuesday.
- FACULTY MEETINGS—Miss Berry, Messrs. McCully, Munz. After Chapel, Monday a. m.
- GRADUATE STUDY—Messrs. Brackett, Burgess, Nicholl, Needham. On call.
- LIBRARY—Miss Spalding, Messrs. Marriott, Bartlett, Livingston, Miss Wood. On call.
- PHYSICAL EDUCATION—Messrs. Russell, Stoughton, Schott, Nixon, Miss Evans, Mr. Woodford. On call.
- PUBLICATIONS—Messrs. Churchill, Williams, Hilton, Bernard, Thomson. On call.
- PUBLIC EVENTS AND LECTURES—Messrs. Williams, Hand, Bernard. On call.
- Music and Drama—Messrs. R. H. Lyman, Allen, Shepard, Schott, Howard. On call.
- RELIGIOUS INTERESTS—Messrs. Marriott, Hand, Brooks, Mrs. Bissiri, Mrs. Emerson. On call.
- ROOMS—Messrs. Burgess, Nicholl, Churchill. On call.
- RULES—Mr. Nicholl, Miss Berry, Mr. Fitts. On call.
- STUDENT AID AND LABOR—Messrs. Hand, Marriott, Nicholl, Miss Berry. On call.

CHARACTER OF THE COLLEGE

POMONA COLLEGE is located at Claremont on the Santa Fe and Pacific Electric Railways, thirty-five miles from Los Angeles. It is connected by the Pacific Electric Railway with Pomona, which is four miles distant, on the Union Pacific and Southern Pacific roads. On the rim of an orchard-covered valley, which is hemmed in on all sides by lofty mountains, and with Mt. San Antonio in the immediate background rising to the height of ten thousand feet, its situation is one of rare beauty. The genial southern climate invites to outdoor life and exercise the year round, while the deep canyons, the rushing streams and the long trails to the heart of the hills allure to the rewarding intimacies of nature. The town of Claremont, which now numbers about two thousand inhabitants, owes its existence to the College, and has the attractive features of the typical college community. The location and situation, within easy reach of the great and growing metropolis of the Southwest, and yet in the quiet retirement of valley and hill, is uniquely wholesome and stimulating in full measure to simplicity and thoughtfulness and all the best enthusiasms of which life is capable.

The College is pre-eminently a company of workers. From the very beginning it has maintained a reputation for interest in thorough scholarship rather than in large numbers. The procedures of the College are established in the purpose of appealing to students who appreciate the seriousness of the College opportunity. To this end, the standards of admission are unusually high. Not only is the number limited, but as defined elsewhere, only students who have finished their preparation with a high grade of promise are received. It is the distinct purpose to make the membership in the institution itself a scholastic honor. This inevitably involves a sacrifice of

certain values which would be temporarily pleasurable but which are not consistent with the most remunerative purposes.

It is the habit of the College to urge that scholarship should not only be high but also broad and inclusive. Pomona College is not a professional school. It insists that the best preparation for life includes not only the ample, generous and complete training of the college course, such as is here given, but also at a later period a thorough and definite professional specialization. It has farther insisted that this best and most complete training is practicable for a much larger number of young people than commonly feel that they have the resources of time and money for it. The College is eager to co-operate in the problems of such aspiring students; it has also been singularly successful in permeating its body of students with these ambitions, and the remarkable success of its graduates is due in no small degree to the fact that nearly seventy per cent of all who have graduated have taken subsequent professional training.

To the end that the College may be adequate for the broadest intellectual citizenship and service, a certain number of courses representing typically the differentiated fields of knowledge and investigation are required, and particular emphasis is laid upon those topics which relate to the history of thought, the organization of society and the bases of truth and righteousness. These courses are required of all, whether staying a longer or shorter time in the institution, as being important to the main purpose for which the College exists. While these few courses are required, there is around them ample field for selection, according to the student's individual interest and purpose.

The College recognizes the fact that social training is also an essential part of education. It is believed that the co-educational character of the College greatly increases the culture of the student body in this respect. Working together on the highest levels of life, men and women are most likely to associate in mutual respect and dignity. It is practically the unanimous testimony of

the graduates of this College that these relations add to the genuine wholesomeness and rounded worth of the student's life. While emphasizing social values and opportunities, the College, however, recognizes them as interests which must be held subordinate to the main business of study and work. For this reason limitations which sometimes may seem narrow are laid upon the social life of the college community. Fraternities and sororities, in the ordinary acceptance of these terms, and extravagant social life, do not exist at Pomona College, and no one should seek the institution who is not willing to make surrender of some personal pleasures in the interests of the common college earnestness and simplicity.

Once more; the College is frankly Christian. It owes its origin and support to men and women of Christian ideals; it cannot, therefore, be other than loyal to these interests. Instead of maintaining a separate Christian life, the College also urgently lays upon its students the obligation of allegiance to that wider democracy of service and uplift which is represented in the Christian Church. The College is, nevertheless, emphatically broad in its hospitality to modern thought. It holds that no student should go out of the College unaware of the throbbing questions of the day or unprepared to face the winds of free discussion; therefore, it welcomes all honest expression of opinion, putting faith in the power of truth to hold its own in the arena of open debate. It thus seeks to resource the coming generation with a leadership of intellectual capacity, directed will and Christian character.

DEGREES

BACHELOR OF ARTS

The courses of study offered by the College lead to the degree of Bachelor of Arts. These courses include certain required studies, but also a wide range of electives in language and literature, philosophy, economics, history, mathematics, science and fine arts. An average of fifteen hours of academic work per semester throughout the four years is required for the completion of the courses. *A detailed statement of the curriculum will be found on page 34.*

COURSES WITHOUT DEGREES

Mature students, ordinarily only such as are at least twenty-one years of age, may be admitted as special students to courses for which by ability and preparation they may be fitted. Special students are not candidates for a degree, though completion of the prescribed courses in Music and Art entitles the student to receive the special State Teacher's Certificate upon the recommendation of the College.

MASTER OF ARTS

A limited number of students, whose under-graduate records show marked excellence, are accepted as candidates for the Master's degree. Only those are admitted who give promise of contributing a definite and inspiring influence to the life of the College. Such residence is therefore required as is deemed necessary to insure mutually helpful relations. *A further statement of requirements will be found on page 37.*

ADMISSION

GENERAL REQUIREMENTS AND METHODS OF ADMISSION

It is the purpose of Pomona College to do a distinctly and notably high grade of work, thus preparing its graduates for special distinction in whatever later callings they may choose. To this end candidates for admission to any class must present satisfactory evidence of their fitness for college, both in character and in scholarship. Testimonials of character and a letter of honorable dismissal from the last institution attended are required. As all applications for admission are carefully scrutinized, delay in filing applications inevitably involves delay in acceptance.

It is further advised that applications be made as early as possible, inasmuch as the College cannot under present conditions guarantee the admission of more than one hundred men and one hundred women to the freshman class, the trustees having limited the total attendance to seven hundred and fifty.

The College welcomes tentative applications from prospective freshmen several years in advance and is glad to offer suggestions from time to time regarding the best preparation for admission. In this respect the good offices of the College are freely at the service of all interested inquirers. A medical examination conducted by an authorized physician, under the direction of the Department of Physical Education, is required of all students.

ADMISSION TO FRESHMAN STANDING

Applicants are admitted to freshman standing in any one of three ways, as follows:

First: Examination by the College.

Second: Certificate of the College Entrance Examination Board.

Examinations are given by the College Entrance Examination Board at certain times and places, which may be learned from the Registrar or from principals of secondary schools.

Third: Certificate from approved schools or colleges.

Students from approved schools or colleges are admitted without examination on presentation of a certificate signed by the principal or proper official and showing in detail the requisite completed courses. Certificate blanks obtained from the Chairman of the Committee on Admission should be filled out and returned as early as possible after the completion of the high school year.

No application is considered which does not show fifteen units in accepted subjects, at least twelve of which are recommended. Special endorsement by the principal must accompany all papers showing non-commended units, such endorsement to include the specific recommendation of the candidate, both as to character and ability, for the undertaking of college work.

Those are matriculated to full standing who at the end of a semester's residence meet the requirements (*see* Matriculation); those who do not meet the requirements are not allowed to matriculate and are enrolled as in partial standing. No student in partial standing is recommended to college standing in another institution. The final acceptance of entrance units is based upon the character of the work done in class at Pomona College as well as upon the grade of the units presented.

ADMISSION TO ADVANCED STANDING

Students who have sufficient credit from other institutions are admitted to advanced standing on credentials signed by the proper officials and giving full specifications concerning the nature of the courses taken and the time spent in each, together with their rank in each subject. They are assigned hours and credits on the basis of their credentials, but such assignment is provisional until ratified by the Classification Committee. This

ratification is not given until after the required semester's residence, at which time the Committee has power to act in adjusting hours or credits, or both, to the qualifications shown.

ADMISSION AS SPECIAL STUDENTS

Mature students, ordinarily only such as are at least twenty-one years of age, may be admitted as special students to courses for which, by ability and preparation, they may be fitted. This provision applies particularly to those equipped for advanced studies in special departments. The privilege of classification as special students is not open to those who seek admission to College in this way as a means of avoiding compliance with the entrance or collegiate requirements laid down for regular students. Special students are not candidates for a degree.

ADMISSION OF GRADUATE STUDENTS

While Pomona College places its main emphasis upon undergraduate courses, it is equipped in some departments to do more advanced work, and the Committee on Admission is empowered to admit to study in these departments graduates of this and other colleges who are prepared to continue in such work.

On registration, graduate students indicate whether they are candidates for the Master's degree, or seeking a teacher's certificate, or are students at large.

CREDITS FOR NON-COMMENDED WORK

Students who enter with some of their work non-commended may remove their deficiency in one of three ways—by examination, by continuing the same line of study in College with high grade or by extra work in College not counted towards a degree. These three methods are more fully described as follows:

First: Students may be examined upon any of the accepted subjects presented for entrance, and upon passing with B grade receive credit toward entrance for that subject.

Students wishing to remove deficiencies by examination must do so before entering upon College work. Such examinations must be taken during the first three days of registration week of either semester or (by special arrangement) the week preceding the College commencement. They must be arranged for in advance through the Registrar.

Second: Entrance credit will be given for non-commended work after a student has completed with high grade two or more College courses in the same or a closely allied subject, or upon conditions laid down in individual cases by the Classification Committee.

Third: Entrance credit may be gained by work in certain College courses, but such courses cannot count toward the number of hours or credits required for graduation, nor for honors. Moreover, students may not substitute for subjects specifically required for entrance other subjects taken in this way.

Students are not candidates for a degree nor are they eligible for recommendation to college standing in another institution until they have been matriculated. Students are matriculated only after they have come into full standing. All students must be matriculated before attaining to Junior standing.

COURSES REQUIRED FOR ADMISSION TO FRESHMAN STANDING

In the following outline of courses a "unit" represents a course of study in one subject of high school grade involving five forty-five minute recitations per week or an equivalent for a school year. Laboratory periods should be at least twice the length of recitation periods.

Not less than one unit in any subject is normally accepted, though a half unit may be accepted when accompanied by units for courses in allied subjects.

SPECIFIC REQUIREMENTS—9 UNITS

English, 3 units	Algebra, 1 unit
History, 1 unit	Geometry, 1 unit
One foreign language, 2 units	*One laboratory science, 1 unit

ADDITIONAL REQUIREMENTS—3 UNITS

Selected from the following:

English	Mathematics
History	*Laboratory Science
Foreign Language	

ELECTIVE—3 UNITS

It is recommended that these electives be chosen from the subjects specified above, but in view of the importance of other lines of high school work credit is allowed for full units in other courses counted for high school graduation, the acceptance of which is specifically recommended by the principal of the school.

DESCRIPTION OF SUBJECTS

Details regarding subjects accepted for entrance may be secured from the Chairman of the Committee on Admission. In general each unit represents a year's work in the subject, as ordinarily presented in the California high schools.

EXTRA ENTRANCE CREDITS

If by examination or by certificate, a student presents more than fifteen units of commended work for admission he may, after the lapse of a semester and upon formal application, receive college credit for certain subjects taken in the third or

*Heads of departments in which students wish to continue laboratory subjects begun in high school may, at their option, require the high school note-books to be submitted as evidence of ability to continue with more advanced work in the department.

fourth year of the high school course, provided that these subjects, or others closely allied, have been continued in college with high grade, one unit of commended work being allowed from three to five hours of college credit. Extra credit is thus allowed in foreign language, advanced mathematics, advanced science, and English. Credit, varying in amount with the individual courses, is granted for graduate work in approved high schools.

CURRICULUM

DEGREE OF BACHELOR OF ARTS

The courses of study offered lead to the degree of Bachelor of Arts under the following hour and credit requirements.

HOOR REQUIREMENTS

One hundred and twenty-six hours of work are required for graduation. An "hour" consists of one recitation or lecture period, or one laboratory period a week for one semester. A recitation or lecture period covers fifty-five minutes; a laboratory period covers, in general, the time of three such periods. In order to complete the course in four years one must take an average of fifteen hours of academic work per semester throughout the four years.

CREDIT REQUIREMENTS

In order to graduate a student must not only earn a certain number of hours, but also attain an average of at least C grade in those hours. To this end a certain number of credits is ascribed to each grade as a basis of determining average grade. The scale is so adjusted that the number of credits required for graduation coincides with the number of hours. Details regarding credits are published in the "*Manual of Procedure*."

CHOICE OF SUBJECTS

In the selection of his work the student is given a large range. The only limitations are such as will insure to him, on the one hand, the breadth of view which may be gained by an introductory study of each of the great realms of knowledge; and, on the other, that concentration along some chosen line of work which shall develop power of thought and an actual fund of knowledge in some particular field.

To this end there are certain subject requirements, as stated below. The College would emphasize also, the advisability of

selecting work representing each of the following broad groups of subjects:

1. Language, Literature and Fine Arts.
2. Mathematics, Physical and Biological Sciences.
3. History, Social Sciences and Philosophy.

SUBJECT REQUIREMENTS

Orientation in Modern Thought—6 hours, Freshman year.

English Composition¹—6 hours, Freshman year.

Foreign Language—12 hours, Freshman and Sophomore years.

Economics, History or Political Science—6 hours, Sophomore year.

Hygiene²—2 hours, Freshman or Sophomore year.

Mathematics or Science—6 hours, Freshman year.

Mathematics or Science—6 hours, Sophomore year, except for those who enter with credit for three units in one of these subjects.

Physical Education—4 hours in Freshman and Sophomore years and 2 hours in Junior and Senior years for those not taking Military Training. For those taking Military Training the requirement is 1 hour per year throughout the course.

Military Training—Required of all men entering to Freshman or Sophomore standing, until they have credit for two years' work or the equivalent.

Economics, English, History or Political Science—6 hours, Junior or Senior year, unless 3 recommended units of English and 3 of History were presented for entrance.

Philosophy, Psychology or Religion—9 hours, Sophomore, Junior or Senior year. 6 hours must be taken in Junior and Senior years and may be all in one department or distributed among these departments.

¹Required only of those deficient in the use of English.

²Must be taken in Freshman year by the women and in Freshman or Sophomore year by the men, unless the equivalent is offered.

In addition to these requirements, there is a general requirement of 36 hours of C and D academic work, of which at least 9 must be D work.

DEPARTMENTAL MAJOR

Students who have shown special ability in one line of work may, with the consent of the head of the department, enroll for a departmental major. This major includes at least 18 C or D hours in the department chosen, together with certain courses in allied subjects, and usually a reading knowledge of French and German. Six of these 18 hours must be D hours and at least 6 must be taken in the Senior year. The student plans his work in consultation with the head of the department concerned. Certain prerequisites, differing with the subject chosen, are indicated for each major. A final examination or thesis or both may be required.

Students who desire to become candidates for a departmental major should indicate such intention to the head of the department as early as possible.

The student who completes a departmental major receives in addition to his diploma the special commendation of the department.

COURSES IN MUSIC AND ART

The College is equipped to offer unusual privileges in the Departments of Art and of Theoretical and Applied Music. The influence of the College is greatly enriched by the contributions made through these departments to the cultural life of the institution as a whole. In Bridges Hall the great musicians of the world are heard, all students being supplied with admission to their concerts. Great enlargement of life comes through intimate acquaintance with these arts, both in theoretical and applied forms, and the College urges all regular students to include them, at least to some degree, in their

cultural courses, credit toward the B.A. degree being granted on conditions specified under the detailed description of the courses.

TEACHERS' CERTIFICATES

The College is authorized by the State Board of Education to issue to individuals who complete a prescribed course of study, credentials entitling them to a certificate to teach in the public elementary, junior high and secondary schools of the State of California. Detailed information may be had on application.

SUMMER SESSION

The Summer Session affords opportunity to undergraduate students, especially, but also to high school teachers and others, to pursue work for credit in various departments. The Department of Zoology conducts its work at the Laguna Beach Marine Laboratory, Professor W. A. Hilton, Director. Other departments meet in the College buildings at Claremont. The session opens immediately after Commencement and continues for six weeks.

MUSIC AND DRAMA COURSE

In order to insure to the entire student body the opportunity of hearing and seeing the great artists of the day whose public appearance is usually confined to the larger cities, the College introduces each year a group of the most distinguished masters in the various departments of achievement. For the concerts and other entertainments thus afforded an annual ticket is furnished to every student.

DEGREE OF MASTER OF ARTS

Candidates for the degree of Master of Arts consult with the Chairman of the Committee on Graduate Work as to the special requirements which will be made in their cases. In addition to the presentation of a thesis, twenty-four hours of work are

required for the higher degree. The twenty-four hours are divided between a major subject and a minor subject in the same or in a closely allied department. No elementary undergraduate work may be counted. One copy of the thesis, bound in accordance with specifications in the hands of the librarian, must be placed in the College library.

SCHOOL OF EDUCATION

The School of Education was established at Pomona College in March, 1920, and formally recognized by the California State Board of Education on March 24th. The school is designed to train teachers and school administrators with the same thoroughness that has characterized Pomona undergraduate standards. Arrangements with the nearby schools have opened an unusual opportunity for practice teaching under the supervision of skilled teachers. The special courses in education, conducted by masters of the subjects, offer rich opportunities beyond the mere technical requirements of State certification laws.

Work in the School of Education looks to the securing of certificates in California and surrounding states as follows:

- I. General Secondary or High School Certificates.
- II. Junior High School Certificates.
- III. Special Secondary Certificates.
 - Manual and Fine Arts Type.
 - Music Type.
 - Physical Education Type.
- IV. General Elementary Certificates.
- V. Special Elementary Certificates of the three types listed above.

At least Junior standing in Pomona College is required for enrollment in the School of Education, though the elementary

required courses for special certificates may be taken in Freshman and Sophomore years.

Graduate work, looking to High School certificates, requires the Bachelor's degree from an approved college.

Graduates of approved Normal Schools and Junior Colleges are admitted to the courses leading to all certificates.

Graduates of Junior Colleges, looking to teaching in the Elementary Schools of California, can secure their elementary certificates with their B.A., and have all work count directly toward the requirements for High School certificates without loss.

LECTURE FOUNDATIONS

THE JOSEPH H. JOHNSON FOUNDATION

The Joseph H. Johnson Foundation, liberally endowed by Miss Ellen B. Scripps, provides an annual income for the purpose of furnishing to the College for a protracted stay and intimate participation in college life notable educators from other institutions. By this means such educators are annually in residence in Pomona College. The opportunity of intimate contact with distinguished instructors thus afforded to undergraduates is a unique privilege, often surpassing the privileges of the classroom of the institution from which these educators come.

THE HENRY D. PORTER FOUNDATION

The Henry D. Porter Foundation, named in honor of the late Rev. Henry D. Porter, for many years a missionary in China, secures to the institution annually, the extended stay of some prominent worker in the field of Christian Missions. The lecturer upon this foundation commonly shares in the regular classroom work related to the history, geography, politics or religion of the region in which he has been actively at work. This vivid representation of the missionary life is one of the most stimulating features in the spiritual program of the College.

CURRICULUM

An outline of the work which leads to graduation is here given by years. A more complete description of each course may be found under "*Departments of Instruction.*"

Each "hour" represents one recitation or laboratory period per week for one semester.

FRESHMAN YEAR

Hygiene ¹	2 semester hours
Physical Education ²	2 semester hours
Military Training (<i>for men</i>).....	3 semester hours
Foreign Language ³	6 semester hours
Orientation in Modern Thought.....	6 semester hours
Mathematics or Science.....	6 semester hours
Elective.....	Not less than 12 nor more than 15 semester hours

SOPHOMORE YEAR

Physical Education ²	2 semester hours
Military Training (<i>for men</i>).....	3 semester hours
Foreign Language.....	6 semester hours
Mathematics ⁴ or Science ⁴	6 semester hours
History, Economics or Political Science.....	6 semester hours
Elective.....	Not less than 12 nor more than 15 semester hours

JUNIOR AND SENIOR YEARS

Physical Education.....	1 semester hour each
Economics, English, History or Political Science ⁵	6 semester hours
Philosophy, Psychology or Religion.....	6-9 semester hours
Elective.....	Not more than 28 semester hours each

Should include any course requirements not already completed and enough advanced C and D courses to complete the graduation requirement of "36 hours of C and D work, of which 9 must be D."

¹Must be taken in Freshman year by the women, and in Freshman or Sophomore year by the men, unless the equivalent is offered.

²One hour required of those taking Military Training.

³Must continue language begun in Freshman year unless two years of some one language are accepted for entrance, in which case the requirements may be met by 6 hours of that language and 6 hours of another foreign language.

⁴Unless 3 recommended units of Mathematics or 3 of Laboratory Science were presented for entrance.

⁵Unless 3 recommended units of English and 3 of History were presented for entrance.

COURSES OF INSTRUCTION

DESIGNATION OF COURSES

The letter preceding the number in the designation of a course indicates in general its grade. Elementary courses, designated by A (as English A1) are given in Freshman or Sophomore year; B courses are either those which follow the A courses of earlier years or the more advanced beginning courses; C and D courses are advanced courses given to Juniors and Seniors, D courses being the more difficult. The natural sequence of courses is from A to B, B to C, and C to D, and a student may not enter a C or D course without previous work in the same line.

Courses with numbers below 100 are underclass courses; those numbered from 100 to 199 are for Juniors and Seniors; those numbered over 200 are for graduate students. Properly qualified Seniors may be enrolled in graduate courses with the consent of the instructor.

Any course may be withdrawn if the enrollment is less than five.

In departments where one-hour courses are offered, two such courses should be completed to secure the counting of hours and credits towards graduation.

When courses in different semesters have the same general number (as B1a, B1b) they cover a common subject, and the entire sequence should be taken. If, however, they are connected by a hyphen (as B1a-B1b), the first course is complete in itself and may be followed by some allied subject instead of the next course in the sequence.

All courses are three hours each unless otherwise designated.

Roman numerals show the periods of recitations. Two courses with the same Roman numerals cannot be taken contemporaneously unless the numerals are preceded by different

letters (as *M* or *W*), showing that the classes meet on different days of the group.

	7:30	9:15	10:15	11:15	1:15	2:15	3:15
<i>MWF</i>	<i>I</i>	<i>III</i>	<i>V</i>	<i>VII</i>	<i>IX</i>	<i>XI</i>	<i>XIII</i>
<i>TThS</i>	<i>II</i>	<i>IV</i>	<i>VI</i>	<i>VIII</i>	<i>X</i>	<i>XII</i>	<i>XIV</i>

Hours to be arranged—*A*.

If a letter precedes the numeral, the class meets only on that day of the group.

ART

The following description of courses is suggestive only, as the work varies slightly from year to year, as the needs of the individual classes demand. Courses in applied art may be repeated for credit. Classes in Graphics, Machine Drawing, Descriptive Geometry and Perspective are described under the Department of Engineering.

- A1a, A1b. Drawing.** KAMINSKI
1 hour each. Both semesters. *T, II and laboratory.*
- A2a, A2b. Color.** KAMINSKI
1 hour. Both semesters. *Th, II and laboratory.*
- A3a, A3b. Design.** KAMINSKI
1 hour. Both semesters. *S, II and laboratory.*
- B9a, B9b. Art Appreciation.** JENKINS
2 hours each. Both semesters. *TTh, VIII and laboratory.*
- B11a, B11b. Drawing and Composition.** KAMINSKI
1 hour each. Both semesters. *T, VIII and laboratory.*
- B12a-B12b. Color continued.** KAMINSKI
1 hour each. Both semesters. *Th, VIII and laboratory.*
- B13a-B13b. Design continued.** KAMINSKI
1 hour each. Both semesters. *S, VIII and laboratory.*
- B14a-B14b. Commercial Art.** KAMINSKI
1 hour each. Both semesters. *M, III and laboratory.*
- B104. Clay Modeling.** KAMINSKI
1 hour. Second semester. *A.*
- C101a, C101b. Dynamic Symmetry.** KAMINSKI
1 hour each. Both semesters. *W, III and laboratory.*

- C103a-C103b. Design Applied to Interiors and Costume. KAMINSKI
1 or 2 hours each. Both semesters. *F, III and laboratory.*
- C105a-C105b. Oils, Landscape and Still Life. JENKINS
1 or 2 hours each. Both semesters. *A.*
- C106a-C106b. Water Color. JENKINS
1 or 2 hours each. Both semesters. *A.*
- C111. History of Art. NORTON
Outline study of Greek art. (*Not given in 1922-1923.*)
- C112. History of Art. SPALDING
Second semester. *VIII.*
- D113a, D113b. Drawing from Life. KAMINSKI
1 hour each. Both semesters. *A.*
- D115a-D115b. Oil continued. JENKINS
1 or 2 hours each. Both semesters. *A.*
- D116a-D116b. Water Color continued. JENKINS
1 or 2 hours each. Both semesters. *A.*
- D117. Portrait. JENKINS
1 or 2 hours. Either semester. *A.* Model fee, \$2.00 per hour.
- D119a, D119b. Teaching of Art. KAMINSKI
1 hour each. Both semesters. *A.*

ASTRONOMY

- B17a, B17b. Navigation and Nautical Astronomy. BRACKETT
Both semesters. 3 hours. (*Not given in 1922-1923.*)
- C100a, C100b. General Astronomy. BRACKETT
This course is designed for students who have had only elementary courses in physics or chemistry, and mathematics. Class room, two hours a week; lecture and observatory amounting to one exercise a week. Both semesters. *VII.*
- C103. Essentials of Astronomy. BRACKETT
This course is designed for students who have a working knowledge of analytic geometry and calculus and of the more important principles in physical science; or it may be taken as an advanced course by those who have had Astronomy C100. Some preparation in free-hand and mechanical drawing also is very desirable. First semester. *IV.*

D104. Theoretical and Practical Astronomy. BRACKETT

Prerequisite: Astronomy C100 or C103. Class room, one hour a week; lecture and observatory amounting to two exercises a week. Ordinarily alternates with Astronomy D106. Second semester. *IV.*

D106. Astrophysics. BRACKETT

Class room, one hour a week; lecture and observatory amounting to two exercises a week. Prerequisite: Astronomy C100 or C103. Ordinarily alternates with Astronomy D104. Second semester. Laboratory fee, \$5.00. (*Not given in 1922-1923.*)

D230. Seminar in Astronomy. BRACKETT

1 to 4 hours either semester. May be repeated for credit *A.*

BIBLE

(*See Religion.*)

BIOLOGY**A1 and A2. General Biology.**

NEEDHAM, MUNZ and Assistants

Both semesters. Class, *MW, VII*; laboratory, *MTWTh* or *F*, 1:15-4:10. Laboratory fee, \$6.00.

C106. Genetics. MUNZ

First semester. Laboratory fee, \$5.00. *A.*

D108. Bionomics. HILTON

Second semester. (*Not given in 1922-1923.*)

D129. Teaching of Biological Sciences. MUNZ

Second semester. 2 hours. *A.*

BOTANY**B21a, B21b. General Botany. MUNZ and Assistants**

A necessary introductory course for advanced work in botany. Both laboratory and field work. Laboratory, two exercises a week; lecture, one hour a week. First semester. *F, I*; laboratory, *T* and *Th*, 1:15-4:10. Laboratory fee, \$7.00 each.

C105. Bacteriology. MUNZ

Prerequisite: One year of biological work. Two laboratory periods and one lecture a week. First semester. Class, *W, I*; laboratory, *TF*, 1:15-4:10. Laboratory fee, \$8.00. Breakage deposit, \$5.00.

C123. Plant Physiology. MUNZ

A glass house and well equipped laboratory are available for this work. Laboratory, two periods a week; lecture, one hour a week. First semester A. Laboratory fee, \$8.00.

C124. Plant Histology. MUNZ

Two laboratory periods and one lecture a week. First semester. Laboratory fee, \$7.00. (*Not given in 1922-1923.*)

C125. Comparative Morphology. MUNZ

Two laboratory periods and one lecture a week. First semester. Laboratory fee, \$7.00. (*Not given in 1922-1923.*)

C126. Taxonomy. MUNZ

Two laboratory periods and one lecture a week. Second semester. Class, A; laboratory, MW, 1:15-4:10. Laboratory fee, \$7.00.

D129. Mycology and Plant Pathology. MUNZ

An extensive herbarium of fungi available for reference. Important for those intending to enter agricultural work. Laboratory and field work, two periods a week; lecture, one hour a week. Second semester. Laboratory fee, \$7.00. (*Not given in 1922-1923.*)

D130. Plant Propagation and Breeding. MUNZ

A glass house, lath house and special laboratory equipment are available. Designed for those interested in nursery work, landscape gardening, etc. Two laboratory periods and one lecture a week. Second semester. Laboratory fee, \$10.00. (*Not given in 1922-1923.*)

D131. Investigation and Research. MUNZ

Either semester. 1 to 3 hours. A. Laboratory fee, \$2.00 for each hour of credit.

D132. Investigation and Research. MUNZ

A continuation of Botany D131. Either semester. 1 to 3 hours. A. Laboratory fee, \$2.00 for each hour of credit.

D141. Botanical Aspects of Crop Production. STOUT

Field trips and reports, two periods a week; lecture, one hour a week. Second semester. 3 hours. A.

D231. Investigation and Research. MUNZ

Either semester. 2 to 6 hours. A. May be repeated for credit. Laboratory fee, \$2.00 for each hour of credit.

CHEMISTRY

A breakage deposit of \$10.00 is required of all students for each laboratory course. At the conclusion of the work, the deposit, less breakage, is returned.

GENERAL CHEMISTRY

A1a, A1b. The Elements of Chemistry. LYMAN and DE FOE

An introductory course intended for those who have no previous knowledge of the subject. Both semesters. Class, *TTh, II*; laboratory. *T* or *W* or *Th* or *F*, 1:15-4:10. Laboratory fee, \$6.00.

A2. General Laboratory.

To accompany A1a. Laboratory, two periods a week. First semester. 2 hours, chosen from *T, W, Th, F*, 1:15-4:10. Laboratory fee, \$10.00. (*Not given in 1922-1923.*)

A3. Systematic Inorganic Chemistry. LYMAN

Covering chiefly the metallic elements. To be accompanied by Chemistry A4. First semester. *III*.

A4. Inorganic Preparations. DE FOE

To accompany Chemistry A3. Laboratory, two periods a week. First semester. 2 hours, chosen from *T, W, Th, F*, 1:15-4:10. Laboratory fee, \$10.00.

B5. Systematic Inorganic Chemistry. LYMAN

Covering chiefly the non-metallic elements. To follow Chemistry A3, and to be accompanied by Chemistry B6. Second semester. 2 hours. *MW, III*.

D120a, D120b. Chemistry Conference. BARTLETT

Prerequisites: Quantitative and Organic Chemistry. Both semesters. 1 hour each. *A*.

D219a, D219b. Teaching of Chemistry.

LYMAN and BARTLETT

Both semesters. 1 hour each. *A*.

SOIL CHEMISTRY

B20, B21. Soil Science. WOODFORD

Prerequisite: One year of College Chemistry. Two class and one laboratory period a week. Laboratory fee, \$6.00 each. (*Not given in 1922-1923.*)

ANALYTICAL CHEMISTRY

B6. Systematic Qualitative Analysis. BARTLETT and DE FOE

To be accompanied by Chemistry B5. One class and two laboratory periods a week. Either semester. Class, *F, III*; laboratory, *WF, 1:15-4:10*. Laboratory fee, \$10.00.

B7. Quantitative Analysis. BARTLETT and BLACET

Gravimetric and volumetric. Prerequisite: Chemistry B6. One class and two laboratory periods a week. Either semester. Class, *VIII*; laboratory, *TTh, 1:15-4:10*. Laboratory fee, \$10.00.

C108. Advanced Gravimetric Analysis. BARTLETT

Prerequisite: Chemistry B7. One class and three laboratory periods a week. Either semester. 4 hours. Class, *A*; laboratory, three periods, *A*. Laboratory fee, \$10.00.

C111. Advanced Volumetric Analysis and Electro-Analysis. BARTLETT

Prerequisite: Chemistry B7. One class and three laboratory periods a week. Either semester. 4 hours. *VIII*. Laboratory fee, \$10.00.

C117. Food Analysis.

Prerequisite: Chemistry B7, C109 and C110. Three laboratory periods a week. First semester. *A*. Laboratory fee, \$10.00. (*Not given in 1922-1923.*)

D112. Advanced Quantitative Analysis. BARTLETT

Prerequisite: Chemistry C108 and C111. Conferences and three laboratory periods a week. First semester. *A*. Laboratory fee, \$12.00.

D113. Advanced Quantitative Analysis. BARTLETT

Prerequisite: Chemistry C108 and C111. Conferences and three laboratory periods a week. Second semester. *A*. Laboratory fee, \$12.00.

ORGANIC CHEMISTRY

B9. Systematic Organic Chemistry. LYMAN

Prerequisite: Chemistry A1b or B5. First semester. *VII*.

B10. Organic Chemistry Laboratory. BLACET

To accompany Chemistry B9. First semester. 1 or 2 hours. *A*. Laboratory fee, \$6.00 for the first hour; \$4.00 for the second hour.

C109. Systematic Organic Chemistry. LYMAN

Prerequisite: Chemistry B9. Second semester. VII.

C110. Organic Chemistry Laboratory. BLACET

A continuation of Chemistry B10, but taking up cyclic compounds. To accompany Chemistry C109. Second semester. 1 or 2 hours. A. Laboratory fee, \$6.00 for the first hour; \$4.00 for the second hour.

D114. Advanced Organic Chemistry. LYMAN

Prerequisite: Chemistry C110. One class and two laboratory periods a week. First semester. A. Laboratory fee, \$10.00.

D115. Physiological and Food Chemistry. LYMAN

Prerequisites: Chemistry C109 and C110. Two lectures and one laboratory period a week. Second semester. A. Laboratory fee, \$6.00.

D214-D215. Research in Organic Chemistry. LYMAN

Prerequisite: Chemistry D114. Occasional lectures and conferences; laboratory work. Both semesters. 2 to 6 hours each. A. Laboratory fee, \$6.00 to \$15.00 each.

PHYSICAL CHEMISTRY**D119a, D119b. Physical Chemistry. BARTLETT**

Prerequisites: Chemistry C108 or C111, C109 and C110. College Physics and Calculus must precede or accompany this course. A reading knowledge of French and German is very desirable. Two class and one laboratory periods a week. Both semesters. A. Laboratory fee, \$8.00 each.

D217-D218. Physical Chemistry Research. BARTLETT

Prerequisites: Chemistry D119a, D119b. Both semesters. 2 to 6 hours. A. Laboratory fee, \$6.00 to \$15.00 each.

CONSTITUTIONAL HISTORY

(See Political Science and Law)

ECONOMICS AND SOCIOLOGY**A2a, A2b. Economic and Financial History. THOMSON**

Prerequisite: Three units of High School History or one year of College History. Both semesters. I.

B1a, B1b. Introduction to Economics. BURGESS and CHANEY

Both semesters. I, V.

B31a, B31b. Accounting. Both semesters. VII.	THOMSON
B103. Principles of Economics. First semester, VII.	CHANEY
C132a-C132b. Advanced Accounting. Both semesters. VIII.	THOMSON
C104. Money and Banking. Prerequisite: Economics B1 or B103. First semester. III.	CHANEY
C105. Banking and Foreign Exchange. Second semester. III.	CHANEY
C106. Public Finance. Second semester. VIII.	CHANEY
C108. Problems of Labor. Second semester. V.	KIRK
C115. Principles of Foreign Trade. Second semester. II.	BURGESS
C109. Corporation Finance. Prerequisite: Economics B1 or B103. First semester. VI.	CHANEY
D107. Trust Problems. First semester. II.	BURGESS
D110. Railroad Transportation. First semester. (<i>Not given in 1922-1923.</i>)	BURGESS
D111. Investments. Prerequisite: Economics C109. Second semester. VI.	BURGESS
D113. Ocean Transportation. Normally follows Economics D110. Second semester. (<i>Not given in 1922-1923.</i>)	BURGESS
D119a, D119b. Economics Seminar. Both semesters. 1 hour each. F, XI.	BURGESS
D114. Elements of Marketing. Second semester. IV.	BURGESS
B21a, B21b. Elements of Sociology. Both semesters. VI.	KIRK
C125. Poor Relief. First semester. V.	KIRK

C128. City Problems	_____
Second semester. (<i>Not given in 1922-1923.</i>)	
C129. Statistics.	_____
First semester. (<i>Not given in 1922-1923.</i>)	
D126. Criminology.	NEELY
Normally follows Economics C125. Second semester. <i>II.</i>	
D127. Theories of Social Reform.	KIRK
First semester. <i>III.</i>	
D130. Immigration.	KIRK
Second semester. <i>III.</i>	
D112. Social Psychology.	EWER
Second semester. <i>VI.</i>	
D201. History of Economics.	BURGESS
First semester. <i>IV.</i>	
D202. Economic Theory.	CHANEY
Second semester. (<i>Not given in 1922-1923.</i>)	
D219. The Teaching of Economics.	_____
Either semester. 2 hours. (<i>Not given in 1922-1923.</i>)	

EDUCATION

(For courses in General Psychology see the Department of Psychology.)

B1. Psychology.	WILLIAMS and EWER
Either semester. First semester, <i>III.</i> Second semester, <i>V.</i>	
B3. Principles of Education.	NICHOLL
First semester. <i>VI.</i>	
B103. Elementary Education.	STANLEY
First semester. 2 hours. <i>MF, I.</i>	
C107. Educational Psychology.	EWER
Prerequisite: Psychology B1. First semester. (<i>Not given in 1922-1923.</i>)	
C111. History of Education.	NICHOLL
First semester. <i>V.</i>	
C112. History of American Education.	NORTON
Second semester. <i>V.</i>	

- C108. Applications of Psychology. EWER
Second semester. *III.*
- C115. Secondary Education. NICHOLL
Either semester. 3 hours. *I.*
- C118. Education for Citizenship. NICHOLL
2 hours. First semester, *TS, IV*; second semester, *S*,
9:15-11:15.
- C119. School and Class Management. HALL
Either semester. 1 hour. *W, I.*
- D104. Philosophy of Education. NICHOLL
Second semester. (*Not given in 1922-1923.*)
- D110. Practice Teaching. NICHOLL, STANLEY, FISCHER
Observation, practice in teaching, conferences. Elementary
and Junior High. Senior year, either semester. 2-4 hours. *A.*
- D116. Public School Administration. WILLIAMS
Second semester. *V.*
- D130. California School Law. _____
Either semester. 1 hour. (*Not given in 1922-1923.*)
- D210. Practice Teaching. NICHOLL and FISCHER
High School. Frequent conferences and discussions of
problems. Either semester. 4 hours. *A.*
- D214. Education Seminar. _____
Either semester. 2 hours. (*Not given in 1922-1923.*)
- D216. Educational Measurements. WILLIAMS
First semester. 2 or 3 hours. (*Not given in 1922-1923.*)
- D217. Mental Measurements. WILLIAMS
First semester. *V.*
- D222. Contents of the Curricula. WILLIAMS
First semester. 3 hours. (*Not given in 1922-1923.*)

ENGINEERING

For students who contemplate engineering work and wish also the foundation and culture of college training a course of studies has been arranged. Graduates who have followed this course complete their work for a degree in the standard schools of engineering and technology in two years. Courses in Mathematics for students in Engineering are listed under Mathematics.

- A1a, A1b. Graphics.** BELCHER
A course in lettering and linear drawing, etc. Both semesters.
2 hours each. (*Not given in 1922-1923.*)
- A2a, A2b. Mechanical Drawing.** TAYLOR
Both semesters. 2 hours each. *TTh, 1:15-4:10.*
- B3a, B3b. Graphics.** BELCHER
An introductory course in orthographic and isometric projections, shade lines and shadows. Prerequisite: Engineering A1 or A2. Two exercises a week, both semesters. 2 hours each. Laboratory, *TTh, 1:15-4:10.*
- B11a, B11b. Surveying.** BELCHER
Class, field work, etc. Both semesters. *A.*
- C115. Descriptive Geometry.** BELCHER
Prerequisite: Engineering A1. First semester. *A.*
- C116. Perspective.** BELCHER
Prerequisite: Engineering C115. Second semester. *A.*
- D113a, D113b. Analytic Mechanics.** TAYLOR
Both semesters. *VII.*

ENGLISH LANGUAGE

ENGLISH COMPOSITION AND RHETORIC

- A21a, A21b. Composition.** SIMONSON and WEAVER
Elementary course required of those who are deficient in the use of English. Both semesters. Two sections. *V and VI.*
- A22. Composition.** SIMONSON and WEAVER
Prerequisite: C grade or better in English A22 or equivalent. First semester. *V.* Second semester, *II, VII, XI.*
- B23. Composition.** SIMONSON and WEAVER
First semester. Five sections. *II, III, V, VI, XI.*
- A24a, A24b. Composition.** THOMSON
Special attention to commercial correspondence. Both semesters. *VI.*
- A51a, A51b. English for Foreigners.** WEAVER
Both semesters. *A.*
- C125. Essay.** McCULLY
First semester. *VI.*

- C126. Journalism. WEAVER
Second semester. VI.
- C128. The Short-Story. FRAMPTON and SIMONSON
Open to Sophomores who have had English B23, and to upper-classmen. Second semester. V.
- D227. Literary Criticism. FRAMPTON
First semester. (*Not given in 1922-1923.*)
- D229. Writing of Plays. SHEPARD
First semester. VIII.
- D230. Composition Seminar. FRAMPTON
Students must obtain the written consent of the teacher prior to registration. Second semester. VIII.

ARGUMENTATION AND PUBLIC ADDRESS

- A35a, A35b. Elementary Public Address. SHEPARD
Both semesters. 2 hours each. MF, III.
- A36a-A36b. Fundamentals of Expression. SHEPARD
Both semesters. 2 hours each. MF, I.
- B31. Argumentation. WEAVER
First semester. VIII.
- B32. Public Address. SHEPARD
Prerequisite: English A35a, A35b, or equivalent. Second semester. VIII.
- B33a, B33b. Argumentation. BAKER
Both semesters. 1 hour each. A.
- C133. Advanced Argumentation. FRAMPTON
Second semester. (*Not given in 1922-1923.*)
- C131a, C131b. Practical Public Speaking. SHEPARD
Prerequisite: English B32 or equivalent. Both semesters. 2 hours each. MF, VII.
- C134a, C134b. Interpretive Reading of Dramatic Literature. SHEPARD
Prerequisite: English A36a, A36b, or equivalent. Both semesters. IV.

ENGLISH LANGUAGE

Students who elect English Language as a major are required to offer English C141, D142 and C144; and, from the Department of English Literature, English A2, or B3. They will ordinarily be expected to offer also English B6. The requirements for the major in English Literature are stated under that Department. Advice as to other work should be sought from the head of the Department. Students will be admitted to C and D courses in this Department who have done satisfactory work in B and C courses in the Department of English Literature.

C141. Anglo-Saxon. FRAMPTON

Required of students whose major is English Language. First semester. (*Not given in 1922-1923.*)

C144. Chaucer. FRAMPTON

It is desirable, though not necessary, that those who elect this course shall have had English C141 and English B6. Given in alternate years. Required of those whose major is English Language. Second semester. VII.

D142. Beowulf. FRAMPTON

Required of those whose major is English Language. Prerequisite: English C141. Second semester. (*Not given in 1922-1923.*)

D219. The Teaching of English. FITTS

Second semester. 2 hours. A.

ENGLISH LITERATURE

Students who make English Literature their major subject should consult the head of the Department regarding their choice of courses and other work. The requirements for the major in English Language are given under that Department.

A1a, A1b. Introduction to Literature. McCULLY

Both semesters. I.

A2a, A2b. Historical Survey of English Literature. _____

Recommended to students who have not had a high school course in the history of English Literature and who do not plan to major in English. Both semesters. (*Not given in 1922-1923.*)

B3. Development of English Literature. SPALDING

First semester. VI.

B4. Shakespeare. McCULLY

A rapid reading course. Second semester. VI.

- B5a, B5b. Nineteenth Century Literature. SIMONSON
Open only to those who have had a course in the History of English Literature. Both semesters. *III.*
- B6. Medieval Literature. FRAMPTON
Recommended to those who major in English Language, as preparation for English D144. Open to those who have a knowledge of English History. First semester. (*Not given in 1922-1923.*)
- B13a-B13b. Greek Literature and Life. NORTON and STEARNS
Both semesters. *VI.*
- B17a, B17b. Roman Life and Literature. ROBBINS
Both semesters. (*Not given in 1922-1923.*)
- C107. American Literature; Poetry. SIMONSON
First semester. *IV.*
- C108. American Literature; Prose. SIMONSON
Second semester. *IV.*
- C109. English Literature of the Seventeenth and Eighteenth Centuries, with Poetics. SPALDING
First semester. (*Not given in 1922-1923.*)
- C110. Romantic Period of English Literature. SPALDING
Second semester. *V.*
- C119. Browning. SPALDING
First semester. *V.*
- C103a-C103b. Eighteenth Century Literature. MCCULLY
Both semesters. *II.*
- D120. Present-Day English and American Poetry. SPALDING
Open to students who have had the equivalent of two courses in poetry, and with the written consent of the instructor. Second semester. (*Not given in 1922-1923.*)
- D108a-D108b. The Novel. MCCULLY
Both semesters. *V.*
- D115. Shakespeare. SPALDING
Intensive study of selected plays. Required of students whose major is English Literature. Prerequisite: English B4 or its equivalent. First semester. *VIII.*
- D116. Shakespeare. SPALDING
Second semester. *VIII.*

- D216. Seminar in Literature. SPALDING
Second semester. VI.
- D202. Masterpieces in English. SPALDING
First semester. VII.
- D111. History of the English Drama to 1642. FRAMPTON
Second semester. VI.
- D112. English Drama from 1660 to the Present. _____
A continuation of English D111. Second semester. (*Not given in 1922-1923.*)
- D230. Literature Seminar. MCCULLY
Either semester. 1 to 4 hours. (*Not given in 1922-1923.*)

FRENCH

- A1a, A1b. Elementary. R. F. BISSIRI and MATHESON
Both semesters. Four sections. I, IV, V, VII.
- A2a, A2b. Intermediate. JONES
Prerequisite: One year of high school or one semester of college French, or equivalent. Both semesters. 2 hours each. MF, III.
- B3a, B3b. French Novel of the Nineteenth Century.
R. F. BISSIRI and MATHESON
Both semesters. Five sections. II, VI, VII, VIII.
- B4a, B4b. Grammatical Analysis. R. F. BISSIRI
Prerequisite: French A1 or A2, or equivalent. Both semesters. 2 hours each. WF, III.
- C105. Classic Drama. JONES and R. F. BISSIRI
Prerequisite: French B3, or equivalent. First semester. V.
- C106. Seventeenth Century Prose. JONES and R. F. BISSIRI
Prerequisite: French B3, or equivalent. Second semester. V.
- D109. Literature of the Eighteenth Century. JONES
Alternates with French D111. Prerequisites: French C105 and C106. First semester. IV.
- D110. Romantic School. JONES
Alternates with French D112. Prerequisites: French C105 and C106. Second semester. IV.
- D111. Literature of the Renaissance. JONES
Alternates with French D109. Prerequisites: French C105 and C106. First semester. (*Not given in 1922-1923.*)

D112. Ronsard to Malherbe. JONES
Alternates with French D110. Prerequisites: French C105 and C106. Second semester. (*Not given in 1922-1923.*)

D219. The Teaching of French. JONES
First semester. 2 hours. A.

GEOLOGY

B1. Physical Geology. WOODFORD
Dynamic and structural. Prerequisite: Chemistry A2, or High School Chemistry and Physics. Classroom, two hours a week; laboratory or field work, one period a week. First semester. Classroom, *WF, I*; laboratory, *W* or *Th*, 1:15-4:10. Laboratory fee, \$3.00.

B2. Historical Geology. WOODFORD
Prerequisite: Geology B1. Second semester. Class *WF, I*; laboratory or field work, *W* or *Th*, 1:15-4:10. Laboratory fee, \$3.00.

B3. Determinative Mineralogy. WOODFORD
Prerequisite: Chemistry A1 or equivalent. Either semester. Two laboratory periods, 2 hours. A. Laboratory fee, \$4.00.

C105. Crystallography WOODFORD
Must be preceded or accompanied by Geology B3. First semester. 2 hours. *WF, V*.

C106. Descriptive Mineralogy. WOODFORD
Prerequisites: Geology B3 and C105. Second semester. Class, *WF, V*; laboratory, *T*, 1:15-4:10. Laboratory fee, \$4.00.

C108-C109. Economic Geology. WOODFORD
Prerequisite: Geology B1. Must be accompanied or preceded by Geology B3. Both semesters. (*Not given in 1922-1923.*)

C110. Petrology. WOODFORD
Prerequisites: Geology B1, B3, C105. Second semester. One class and two laboratory periods. A. Laboratory fee, \$4.00.

D104. Field Geology WOODFORD and TAYLOR
Prerequisites: Geology B2, C110. A summer course of six weeks. 6 hours. A.

GERMAN

A1a, A1b. Elementary Course. BISSELL
Both semesters. *II*.

B3a, B3b. Prose Narrative and Drama. BISSELL
Prerequisite: German A1, or two years of elementary German. Both semesters. *VI*.

- B4a, B4b. Composition. CHURCHILL
May be required of those deficient in German. Both semesters.
1 hour each. (*Not given in 1922-1923.*)
- B6a, B6b. Composition. CHURCHILL
Advanced narrative prose. For students of good standing.
Both semesters. 1 hour each. (*Not given in 1922-1923.*)
- C109a-C109b. German Novel of the Nineteenth
Century. BISSELL
Prerequisite: German B3 or equivalent. Both semesters. I.
- C110a, C110b. German Composition and Conver-
sation. BISSELL
Required of those making German their major. Prerequisites:
German B3, or equivalent, and German B6. Both semesters.
1 hour each. (*Not given in 1922-1923.*)
- C111. Scientific German. BISSELL
Intended primarily for those planning to do graduate work
leading to the degree of Doctor of Philosophy. Prerequisite:
German B3 or equivalent. Second semester. VIII.
- D112. Composition. BISSELL
Advanced course. Required of all who desire the recom-
mendation of the Department as teachers. Prerequisite:
German C110. First semester. (*Not given in 1922-1923.*)
- D113. Lessing. BISSELL
First semester. IV.
- D114. Goethe. BISSELL
Prerequisite: German D113. Second semester. IV.
- D115. Outline Course in the History of German
Literature and Language to the Age of Lessing. BISSELL
Prerequisite: German C109 or equivalent. First semester.
(*Not given in 1922-1923.*)
- D116. German Literature from Lessing to the Death
of Goethe. BISSELL
Prerequisite: German D115. Second semester. (*Not given
in 1922-1923.*)
- D117. Modern Drama. BISSELL
First semester. (*Not given in 1922-1923.*)
- D118. Modern Fiction. BISSELL
Second semester. (*Not given in 1922-1923.*)

GREEK

- B1a, B1b. Elementary Greek. ROBBINS
Both semesters. IX.
- B2a, B2b. Composition. NORTON
Required of those who make Greek their major. Both semesters. 1 hour each. (*Not given in 1922-1923.*)
- B3. Lysias. ROBBINS
First semester. III.
- B4. Plato, *Apology* and *Crito* with selections from *Phaedo* (Kitchel); Homer, *Odyssey*. ROBBINS
Second semester. III.
- C105. Aeschylus, *Prometheus*; Sophocles, *Oedipus the King*. NORTON
First semester. (*Not given in 1922-1923.*)
- C106. Demosthenes. NORTON
First semester. (*Not given in 1922-1923.*)
- C107. Hellenistic Greek. NORTON
First semester. (*Not given in 1922-1923.*)
- D108. Homer. NORTON
Alternates with Greek D108. Second semester. (*Not given in 1922-1923.*)
- D109. Plato, *Phaedo* and *Protagoras*. NORTON
Alternates with Greek C107. First semester. (*Not given in 1922-1923.*)
- D110. Thucydides. Books VI and VII. NORTON
Alternates with Greek D108. Second semester. (*Not given in 1922-1923.*)
- B13a-B13b. Greek Literature and Life. NORTON and STEARNS
This course is open to those who have no knowledge of the Greek language. Both semesters. VI.

HISTORY

Students wishing to major in History shall present their programs to the head of the Department for approval. They must offer at least 24 hours in the Department, of which 18 are C and D work, and at least 6 hours in the allied departments of Economics or Political Science; they shall also present such credit in modern language as may be deemed wise in each individual case.

- A1a,A1b. General European History. PIATT and Assistant
Both semesters. *I*.
- B2a-B2b. Early European History (476-1648).
WESTERGAARD and LIVINGSTON
Both semesters. (*Not given in 1922-1923.*)
- B3-B4. Ancient Classical History. STEARNS
Both semesters. (*Not given in 1922-1923.*)
- B7a-B7b. English History. LIVINGSTON
Both semesters. *VIII*.
- B21. Ancient Oriental History. Babylonia, Assyria,
Egypt. STEARNS
First semester. *II*.
- B22. Ancient Oriental History. Persia, Palestine. STEARNS
Second semester. (*Not given in 1922-1923.*)
- C107a, C107b. American History. LIVINGSTON
Both semesters. *III*.
- C108. The British Empire. LIVINGSTON
First semester. *XI*.
- C113. Modern European History (1648-1815). PIATT
First semester. *VII*.
- D114. Modern European History (1815-1914). PIATT
Second semester. *VII*.
- D127a, D127b. American History. WESTERGAARD
Both semesters. (*Not given in 1922-1923.*)
- D128. American History (1873-1922). LIVINGSTON
Second semester. *IV*.
- D129. Early American Cartography and Explora-
tion. MARRIOTT
Prerequisite: Two years of college history. Second
semester. 2 hours. *A*.
- D130a-D130b. Western World. PIATT
Both semesters. *II*.
- D219. The Teaching of History. PIATT
First semester. 2 hours. *A*.

D230. Seminar in History.**PIATT**

Required of those seeking a departmental Major in History. Either semester. 1-4 hours. A.

For classes in American Government, American Colonial Government, American Diplomacy and Constitutional History, see the Department of Political Science and Law. For courses in Hebrew History, Church History and History of Religions, see the Department of Religion. For courses in Economic History, see Economics A2a, A2b, and for History of Philosophy, see Philosophy C125 and C126.

ITALIAN**B131a, B131b. Elementary.****JONES**

Both semesters. XI.

C133. Tragedy and Drama of the Eighteenth Century.**A. T. BISSIRI**

Prerequisite: Italian B131, or equivalent. First semester; alternating with C135. A.

C135. Boccaccio and Petrarch.**A. T. BISSIRI**

Prerequisite: Italian B131, or equivalent. First semester; alternating with C133. (*Not given in 1922-1923.*)

D134. II Cinquecento.**A. T. BISSIRI**

Prerequisite: Italian B131, or equivalent. Second semester; alternating with D136. A.

D136. Dante.**A. T. BISSIRI**

Prerequisite: Italian B131, or equivalent. Second semester; alternating with Italian D134. IV.

LATIN**A1a, A1b. Elementary Latin.****COLCORD**

Both semesters. I.

A2a, A2b. Vergil and Cicero.**COLCORD**

Prerequisite: Latin A1a, A1b or equivalent. Both semesters. VII.

B3. Cicero, *De Senectute* and *De Amicitia*; Livy (Westcott) Books XXI and XXII.**ROBBINS**

First semester. VI.

B4a, B4b. Composition.**ROBBINS**

Required of all making Latin their major. Both semesters. 1 hour each. A.

- B5. Horace. ROBBINS
Second semester. VI.
- B17a, B17b. Roman Life and Literature. ROBBINS
Both semesters. (*Not given in 1922-1923.*)
- C106. Pliny, *Letters*; Tacitus, *Agricola and Germania*. ROBBINS
First semester. IV.
- C107. Plautus, *Captivi, Trinummus*; Terence, *Adelphoi, Andria*. ROBBINS
Second semester. IV.
- C108a, C108b. Composition. Connected narrative. COLCORD
Required of all making Latin their major. Prerequisite:
Latin B4. Both semesters. 1 hour each. A.
- D109. Cicero, *Letters, Tusculan Disputations*; Roman satire, Persius, Martial and Juvenal; History of Roman satire. ROBBINS
First semester. (*Not given in 1922-1923.*)
- D110. Catullus; Lucretius; Tibullus; Propertius; Ovid; Lucan (Crowell). ROBBINS
Second semester. (*Not given in 1922-1923.*)
- D111. Tacitus, *Histories and Annals*. COLCORD
First semester. A.
- D112. Vergil, *Bucolics and Aeneid*, Books VII-XII; Ovid, *Selections*; Christian and Latin Hymns. COLCORD
Second semester. A.
- D114a, D114b. Composition. Original papers. ROBBINS
Required of those making Latin their major. Prerequisite:
Latin C108. Both semesters. 1 hour each. (*Not given in 1922-1923.*)
- D219. The Teaching of Latin. ROBBINS
First semester. 2 hours. (*Not given in 1922-1923.*)
- D220. Special Latin. ROBBINS
The nature of the course varies from year to year to meet the needs of the students. Second semester. (*Not given in 1922-1923.*)

LAW

(See Political Science and Law.)

MATHEMATICS

The courses in Mathematics designated A1, A2, B3, B4 and A5 are intended primarily for Freshmen. Students who enter with credit for three and a half or four units of commended work in Mathematics, including solid geometry and trigonometry, may take Mathematics B6 or B13. Mathematics A5a and A5b are intended primarily for those who do not expect to take further work in the subject. Others should take Mathematics A1 and A2, or B3a and B3b, or A4 and A2, according to their preparation and need. Those who major in Mathematics are expected to take D227.

A1. Solid Geometry. TAYLOR
Second semester. V.

A2. Plane Trigonometry. RUSSELL and TAYLOR
Either semester. First semester, V. Second semester, III.

A4. Algebra. RUSSELL
A semester course in second year Algebra, designed for those who have studied Algebra only a year. First semester. III.

A5a, A5b. Elementary Analysis. BERRY
Both semesters, two divisions. I, III.

A8. Mathematical Introduction to Engineering. TAYLOR
Prerequisite: Plane trigonometry. First semester. II.

B3a-B3b. Algebra. RUSSELL
Prerequisite: Two years of High School Algebra. Both semesters. V.

B6. Advanced and Spherical Trigonometry. RUSSELL
Prerequisite: Plane trigonometry. First semester. (*Not given in 1922-1923.*)

B13a-B13b. Analytic Geometry and Calculus. RUSSELL
Designed to follow Mathematics A1 and A2, B3 or A4 and A2. Both semesters. VI.

B17. Elements of Analytic Geometry and Calculus. TAYLOR
Primarily for students of Engineering, to follow Mathematics A8. Second semester. II.

- C108a, C108b. Analytic Geometry and Calculus. TAYLOR
This course follows Mathematics B17. Both semesters. VI.
- C115a, C115b. Differential and Integral Calculus. RUSSELL
A continuation of Mathematics B13a, B13b. Both semesters. IV.
- D119. Theory of Equations. RUSSELL
First semester. II.
- D120. Differential Equations. RUSSELL
Second semester. II.
- D121a, D121b. Higher Analysis. BRACKETT
The content of this course differs from year to year. Both semesters. (*Not given in 1922-1923.*)
- D227a, D227b. Projective Geometry. BRACKETT
Both semesters. V.
- D219. The Teaching of Mathematics. BRACKETT
First semester. 2 hours. A.

MILITARY SCIENCE

This institution maintains an Infantry unit, senior division, of the Reserve Officers' Training Corps. Enrollment in the basic course, during the Freshman and Sophomore years, is required of all physically fit male students. Those first taking this basic course in Sophomore year are required to continue the same in Junior year. The advanced course, for Junior and Senior years, is open to selected students, who have completed the basic course, and who sign an agreement to attend the advanced camp for not to exceed six weeks during one summer vacation. Men in the advanced course receive commutation of rations, about ten dollars a month, from the Government, for two college years and the summer vacation between; receive nominal pay in camp, and may be commissioned as Second Lieutenants in the Officers' Reserve Corps upon graduation. All students in the R. O. T. C. are furnished uniforms without cost. Students who have satisfactorily completed two full academic years in a high school R. O. T. C. unit, will normally be admitted to the second year of the basic course.

- A1a, A1b. Basic Course. GROSE
Elementary subjects of Military Training; Infantry Drill; Rifle Marksmanship. Both semesters. 1½ hours each. Class, TTh, VIII; field work, M, 1:15-3:10.

- B3a, B3b. Basic Course.** AYER and ROADY
 Military Map Reading and Sketching; Infantry Drill; Automatic Rifle; Musketry. Both semesters. $1\frac{1}{2}$ hours each. Class, *Th, VIII or F, IX*; field work, *M, 1:15-3:10*.
- C105a, C105b. Advanced Course.** AYER and Assistants
 Military Law; Field Engineering; Infantry Weapons (the pistol, machine guns, trench mortars and one-pounder gun.) Junior year. Both semesters. $3\frac{1}{2}$ hours each. *II and M, 1:15-3:10*.
- D107a, D107b. Advanced Course.** GROSE
 Military History; Administration; Tactics. Senior year. Both semesters. $3\frac{1}{2}$ hours each. *IV and M, 1:15-3:10*.

MUSIC

HISTORY AND THEORY OF MUSIC

Courses in the History and Theory of Music are granted credit on the same basis as other college studies, and proficient students may major in either theoretical or applied music under conditions arranged in consultation with the head of the Department.

- A1a, A1b. Elementary Harmony and Ear Training.** HITCHCOCK
 Both semesters. Two divisions, *I, II*.
- B3a, B3b. Musical History and Appreciation.** ALLEN
 Both semesters. *XI*.
- B5a, B5b. Harmony.** ALLEN
 Prerequisite: Music A1, and an elementary knowledge of the pianoforte. Both semesters. Two sections, *VII, IX*.
- B12. Music Appreciation.** BISSELL
 Elementary Course. Prerequisite: Music A1 or equivalent. First semester. *XIII*.
- B18. French Diction.** BABCOCK
 Open to those specializing in music. Either semester. No hours. A. Fee, \$17.50 per semester.
- C105. Harmonic Analysis.** ALLEN
 First semester. *II*.
- C106. Keyboard Harmony.** ALLEN
 Second semester. *II*.

- C107a, C107b. Counterpoint (Free Composition). ALLEN
Prerequisite: Music B5. Both semesters. VI.
- C112. Music Appreciation. BISSELL
Advanced course. Prerequisite: Music B5a and B12 or equivalent. Second semester. XIII.
- C113a, C113b. Orchestration. HARTLEY
Prerequisite: Music B5. Both semesters. XIII.
- D108a-D108b. Composition. ALLEN
Prerequisite: Music C107. Both semesters. A.
- D219. Public School Music Methods. HITCHCOCK
First semester. 2 hours. A.

APPLIED MUSIC

Any student may take work in Applied Music, but is enrolled for credit only upon the written recommendation of the Chairman of the Examining Committee and the Head of the Department, and upon the subsequent favorable action of the Classification Committee. This recommendation and the action of the committee are based upon the degree of ability shown in proficiency tests. (*See Music Bulletin.*) Work in Applied Music to receive credit must be carried with a minimum of two half-hour lessons weekly and must be accompanied or preceded by the theoretical courses A1 and B5. Under these conditions the applied work is rated as two hours for each semester. Not more than sixteen such hours may be counted toward the degree.

Voice	LYMAN, BABCOCK, LEE and Assistant
Organ	HARTLEY
Piano	ANDREWS and WEST
Stringed Instruments and Ensemble.	ZOELLNER

ORIENTATION IN MODERN THOUGHT

- A1. College Life and Study. FITTS and Assistants
Either semester. IV.
- A2. Economic. KIRK
Either semester. IV.
- A3. Literary. FITTS
Either semester. IV.

A4. Religious.**BROOKS**Either semester. *IV.*

All four courses are required of all Freshmen. Each course covers about nine weeks and receives 1½ hours credit.

PHILOSOPHY**B21. Logic.****WILLIAMS**First semester. (*Not given in 1922-1923.*)**B23. The Elements of Ethics.****DENISON**Prerequisite: Psychology B1. Either semester. *V.***B127. Introduction to Philosophy.****DENISON**First semester. *IV.***C125. Ancient and Medieval Philosophy.****DENISON**First semester. *VII.***C126. Modern Philosophy.****DENISON**Second semester. *VII.***D128. Metaphysics.****WILLIAMS**First semester. (*Not given in 1922-1923.*)**D129. Philosophy of Religion.****DENISON**Second semester. *VI.***D130. Contemporary Philosophical Problems.****DENISON**Second semester. (*Not given in 1922-1923.*)**D132. Philosophy of the State.****DENISON**Second semester. *IV.***D133. Philosophy of Evolution.****DENISON**First semester. *VI.***D230. Philosophy Seminar.****DENISON**Either semester. 1-4 hours. *A.***PHYSICAL EDUCATION**

A course of Informational Hygiene, described under the Department of Physiology as A1, is required of all. The courses are graded, systematic and progressive. Their purpose is to remedy ordinary physical defects, and develop endurance and co-ordination.

MEN AND WOMEN**C126. Normal Growth.****GREENE**2 hours. Second semester. *TTh, IV.*

C133a, C133b. Playground Theory and Methods. SCHOTT
1½ hours each. Both semesters. *M*, 1:15-4:15. Fee, \$2.50
each course.

D130. Kinesiology. EVANS
First semester. *III*.

MEN

Physical measurements are taken at the beginning and end of Freshman and Sophomore years, and are optional for Juniors and Seniors. They are designed primarily to determine vital strength and organic weakness, secondarily to determine muscular strength. The measurements obtained are plotted on anthropometrical tables to determine development and comparison with the average. Any individual who is below normal is given prescribed exercise. A gymnasium fee of \$5.00 is required of all men.

A1a, A1b. Elementary Gymnastics.* SCHOTT and Assistants
Freshman year, both semesters. ½ hour each. *TTh*, *VI* or *WF*, *V*.

A2a, A2b. Sports. SCHOTT and Assistants
Freshman year, both semesters. ½ hour each. *A*.

B3a, B3b. Advanced Gymnastics.* SCHOTT and Assistants
Sophomore year, both semesters. ½ hour each. *TTh*, 4:15.

B4a, B4b. Sports. SCHOTT and Assistants
Sophomore year, both semesters. ½ hour each. *A*.

C105a, C105b. Sports. SCHOTT and NIXON
Junior year, both semesters. ½ hour each. *A*.

C107a, C107b. Sports. SCHOTT and NIXON
Senior year, both semesters. ½ hour each. *A*.

C131a, C131b. Theory of Athletics. SCHOTT and HEATH
Open to Senior men only, both semesters. 2 hours each.

WOMEN

A physical examination is given to all entering students followed by posture test each semester and a second physical examination at the end of the Sophomore year. All women taking a gymnasium or sports course are charged a fee of \$3.00; all taking two courses, a fee of \$5.00.

Students who wish to major in Physical Education should be prepared to meet the following requirements:

*The men in athletics are, upon recommendation of the coach, excused from actual participation in gymnastics during the period covered by the particular sport in which they are engaged.

1. High School prerequisites desirable: Biology and Physics.

2. Allied College subjects: Chemistry A1a, A1b, Applied Physiology and Hygiene A1a, A1b, Zoology B11 and B12, Physiology B9, English A36a, Anatomy and Physiology B3a, B3b, Bacteriology C105.

3. Subjects in the Department of Physical Education for Women: C133a, C133b, C122a, C122b, C126 and C127, D110a, D110b, D111a, D111b, D119a, D119b, D112, D130, D131.

Practical work must cover all the college requirements in Physical Education and must include three seasons of basketball, hockey and baseball; four seasons of tennis, passing a test in swimming, one year of Folk Dancing, two years of Aesthetic and Rhythmic Dancing.

A11a, A11b. Gymnastics. .. EVANS, CHANDLER and GREENE
Required, Freshman year. Both semesters. $\frac{1}{2}$ hour each
Two sections, *MW, VII, or XIII*.

A12a, A12b. Sports. EVANS, CHANDLER and GREENE
Two periods of sports, elected by the student subject to the approval of the director. Required, Freshman year. Both semesters. $\frac{1}{2}$ hour each. *A*.

B13a, B13b. Gymnastics. EVANS, CHANDLER and GREENE
Required, Sophomore year. Both semesters. $\frac{1}{2}$ hour each.
Two sections. *TTh, VIII or XIV*.

B14a, B14b. Sports. EVANS, CHANDLER and GREENE
Two periods following the plan of A12. Required, Sophomore year. Both semesters. $\frac{1}{2}$ hour each. *A*.

C115a, C115b. Sports. EVANS, CHANDLER and GREENE
Junior year. Both semesters. $\frac{1}{2}$ hour each. *A*.

C117a, C117b. Sports. EVANS, CHANDLER and GREENE
A11a, A11b and B13a, B13b include classes in Gymnastics (marching, drill and apparatus), Modified Gymnastics, Remedial Gymnastics, and special work for faulty posture. A12a, A12b; B14a, B14b; C115a, C115b; C117a, C117b include the following: Basketball, Hockey, Baseball, Group Games, Tennis in graded classes, Swimming and Diving in graded classes, Riding in graded classes, Golf, Advanced Gymnastics, Folk Dancing, elementary and advanced, Aesthetic and Rhythmic Dancing, elementary, intermediate and advanced.

C122a, C122b. Playground Dancing. EVANS
Open only to those taking Physical Education C133. Both semesters. $\frac{1}{2}$ hour each. *W, XI*.

C127. School Hygiene and SupervisionFirst semester. (*Not given in 1922-1923.*)**D110a, D110b. Practice Teaching of Gymnastics. EVANS**Both semesters. 2 hours each. *MW, VII.***D111a, D111b. Practice Teaching of Dancing.**

CHANDLER and GREENE

Both semesters. 1 hour each. *F, VII.***D112. Teaching of Physical Education.**

EVANS

Second semester. 2 hours. *MW, III.***D119a, D119b. Methods in Coaching and Supervising**

Sports.

EVANS and CHANDLER

Both semesters. 1 hour each. *F, XI.***D131. Study and Treatment of Growth Divergencies.**

LOWMAN and GREENE

Prerequisite: D130. Second semester. 2 hours. *A.***PHYSICS****A1a, A1b. Elements of Physics.**

HITCHCOCK

Designed for those having had no previous work in the subject. Prerequisites: Elementary Algebra and Plane Geometry. Both semesters. 4 hours. Class, *V*; laboratory, *T, 1:15-4:10*. Laboratory fee, \$5.00 each.

B2a, B2b. General Physics.

HITCHCOCK

A course more advanced than Physics A1a, meeting the Physics requirements of courses in medicine, chemistry and civil engineering. Prerequisites: Algebra through Quadratics, Plane Geometry and Plane Trigonometry. Class, four hours a week; laboratory, one period a week. Both semesters. 5 hours. Class, *III and W, IX*; laboratory, *Th, 1:15-4:10*. Laboratory fee, \$5.00 each.

B3a, B3b. Mechanics of Solids and Fluids, Heat and

Sound.

HITCHCOCK

Designed for those preparing for mechanical or electrical engineering. Prerequisites: The equivalent of High School Physics, Mathematics through differential and integral calculus. Both semesters. (*Not given in 1922-1923.*)

C105a, C105b. Magnetism, Electricity and Light. HITCHCOCKBoth semesters. (*Not given in 1922-1923.*)

C111a, C111b. Advanced Magnetism and Electricity.**HITCHCOCK**

Prerequisites: Physics B2 and Differential and Integral Calculus. Both semesters. *IV.*

D109a, D109b. Physical Measurements.**HITCHCOCK**

Both semesters. 2 hours each. *A.* Laboratory fee, \$8.00 each.

PHYSIOLOGY**A1a, A1b. Informational Hygiene.****SCHOTT and EVANS**

Freshman year, both semesters. 1 hour each. Women, *T or Th, VIII*; men, *T or Th, VIII.*

B3a, B3b. Anatomy and Physiology.**SCHOTT**

Class, two hours a week; laboratory, one exercise a week. Both semesters. *WF, IX*; laboratory, *Th, 1:15-4:10.* Laboratory fee, \$3.00 each.

B9. First Aid.**DYER**

1 hour. Second semester. *S, VIII.*

B11. Public Hygiene.**STOUGHTON**

Required of all Juniors, second semester. *A.* Six lectures.

C113. Problems of Heredity and Eugenics, and Related Questions of Personal and Public Hygiene.**STOUGHTON and EVANS**

Advanced course. Six lectures. Required of all Seniors, first semester, *A.*

D105-D106. Histology.

See Zoology D105-D106.

D107-D108. Embryology.

See Zoology D107-D108.

POLITICAL SCIENCE AND LAW**B1a, B1b. Elementary Law.****NEELY**

First semester, Blackstone; second semester, Contracts. Both semesters. *I.*

B2. American Government.**LIVINGSTON**

Second semester. *VI.*

B3. Municipal Government.**LIVINGSTON**

First semester. *VI.*

- B19. American Colonial Government. NEELY
Intended to prepare students for the later courses in American Constitutional History and Comparative Constitutional History. First semester. *II*.
- C103. Pleading. NEELY
First semester. *VI*.
- C117. American Diplomacy. NEELY
First semester. *VIII*.
- D104. Evidence. NEELY
Second semester. *VI*.
- D109a, D109b. Comparative Constitutional History. NEELY
Both semesters. *IV*.
- D111a, D111b. American Constitutional History. NEELY
Both semesters. (*Not given in 1922-1923.*)
- D118. International Law. NEELY
Second semester. *VIII*.

PSYCHOLOGY

The requirements for a Major in Psychology consist of 24 semester hours of Psychology and Philosophy, and a thesis. The courses taken should include Experimental Psychology and History of Philosophy.

- B1. Elements of Psychology. WILLIAMS and EWER
Either semester. First semester *III*, second semester *V*.
- B3a, B3b. Elements of Psychology. WILLIAMS
A more comprehensive course than B1. Both semesters. *IV*.
- C106. The Psychology of Suggestion. EWER
Prerequisite: Psychology B1 or B3. First semester. (*Not given in 1922-1923.*)
- C107. Educational Psychology. EWER
Prerequisite: Psychology B1. First semester. (*Not given in 1922-1923.*)
- C108. Applications of Psychology. EWER
Prerequisite: Psychology B1 or B3. Second semester. *III*.
- D112. Social Psychology. EWER
Second semester. *VI*.

- D217. Mental Measurements. WILLIAMS
First semester. V.
- D218. Experimental Psychology. WILLIAMS
A laboratory course. Second semester. V.

RELIGION

Though courses B3, B4, B9, B10 are complete in themselves, no hours or credits are accepted for graduation unless at least two of them are completed.

- B3. Old Testament History and Religion. BROOKS
First semester. 1 hour. *F, XI.*
- B4. The Preservation and Transmission of the New Testament. _____
Second semester. 1 hour. *(Not given in 1922-1923.)*
- B5. The Prophets. BROOKS
Second semester. 1 hour. *F, XI.*
- B9. Poetry of the Bible. STEARNS
First semester. 1 hour. *F, IX.*
- B10. The Old Testament as Literature. STEARNS
Second semester. 1 hour. *(Not given in 1922-1923.)*
- B21. Ancient Oriental History and Literature. STEARNS
First semester. *II.*
- B22. Ancient Oriental History and Literature. STEARNS
Second semester. *(Not given in 1922-1923.)*
- C104a-C104b. Christian Origins and the Teachings of Jesus. BROOKS
Both semesters. V.
- C107. The Teachings of Jesus. HAND
Second semester. 2 hours. *WF, XI.*
- C109a, C109b. The Religious World. BROOKS
Both semesters. *III.*
- C111a, C111b. Boys' Work. HAND
Both semesters. 2 hours each. *F, XI.*
- C123. Hebrew History and Literature. STEARNS
First semester. *(Not given in 1922-1923.)*

- C124. Early Christian History and Literature. STEARNS
Second semester, (*Not given in 1922-1923.*)
- C125. History of Religions. STEARNS
First semester. IV.
- C128. Christian Missions. STEARNS
First semester. (*Not given in 1922-1923.*)
- D126. History of Christianity. STEARNS
Second semester. (*Not given in 1922-1923.*)

ROMANCE LANGUAGES

(See French, Italian, Spanish.)

SECRETARIAL

- A1a, A1b. Stenography. THOMSON
Must be accompanied by Secretarial A2a, A2b, save for those who can use the typewriter. Both semesters. 2 hours each. III.
- A2a, A2b. Typewriting. THOMSON
No credit except as it accompanies Secretarial A1a, A1b, or A24a, A24b. Both semesters. 1 hour each. A. Fee, \$7.50 each.
- A24a, A24b. Commercial Correspondence. THOMSON
Both semesters. VI.
- B3a, B3b. Filing and Reference. EWING
Both semesters. 1 hour each. Fee, \$7.50 each. (*Not given in 1922-1923.*)
- B4a, B4b. Advanced Stenography. THOMSON
Both semesters. 2 hours each. A.

SPANISH

- A21a, A21b. Elementary. A. T. BISSIRI and ANDERSON
Both semesters. Four sections. II, III, V, VI.
- B23a, B23b. Contemporary Spanish. A. T. BISSIRI and ANDERSON
Prerequisite: Spanish A21, or equivalent. Both semesters. Three sections. I, V, VI.

- B24a,B24b. Composition and Commercial Correspondence. ANDERSON
Prerequisite: Spanish A21, or equivalent. Both semesters.
2 hours each. *WF, XI.*
- C125. Modern Spanish Drama. A. T. BISSIRI
Prerequisite: Spanish B23, or equivalent. First semester.
VII.
- C126. Drama of the Golden Age. JONES and A. T. BISSIRI
Prerequisite: Spanish B23, or equivalent. Second semester.
VII.
- D128a, D128b. America del Sur. JONES
Prerequisites: Spanish C125 and C126. Both semesters.
VIII.
- D129. Seventeenth Century Prose. JONES
Prerequisite: Spanish C126. First semester. *II.*
- D130. El Romancero. JONES
Prerequisite: Spanish C125. Second semester. *II.*
- D230a-D230b. Spanish Seminar. JONES
Both semesters. 1-4 hours. *A.*
- D219. The Teaching of Spanish. ANDERSON
Second semester. 2 hours. *A.*

ZOOLOGY

- B11. General Zoology. HILTON
Prerequisites: Biology A1 and A2, or equivalents. Class, 2 hours a week; laboratory, 1 exercise a week. First semester. 3 hours. Class, *TTh, II*; laboratory, *W, 1:15-4:10*. Laboratory fee, \$6.00. (*Not given in 1922-1923.*)
- B12. General Zoology. HILTON
A continuation of Zoology B11. Vertebrates. Prerequisite: Physiology B3 or Zoology B11. Class, 2 hours a week; laboratory, 1 period. Second semester. Class, *TTh, II*; laboratory, *W, 1:15-4:10*. Laboratory fee, \$6.00. (*Not given in 1922-1923.*)
- B18. Entomology. NEEDHAM
Prerequisite: Biology A1, or Zoology B11. Class, 2 hours a week; laboratory, 1 exercise a week. Second semester. Class, *MW, VII*; laboratory, *Th, 1:15-4:10*. Laboratory fee, \$5.00.

- B21. Animal Ecology.** NEEDHAM
Prerequisite: Biology A1 and A2, or equivalent. First semester. Class, *TTh, II*; laboratory, *W, 1:15-4:10*. Fee, \$6.00.
- C113. Advanced Zoology.** HILTON
Prerequisite: Zoology B11 or B18. Either semester. 2 or 3 hours. A. Laboratory fee, \$2.00 per hour. (*Not given in 1922-1923.*)
- C118. Biology of the Human Species.** NEEDHAM
Second semester. *II*.
- C119. Special Entomology.** NEEDHAM
Prerequisites: Zoology B11 and B18. Either semester. 2 or 3 hours each. A. Laboratory fee, \$2.00 per hour.
- C131. Systematic Invertebrate Zoology.** HILTON
Prerequisite: Zoology B11 or B18. Lecture, 1 hour a week; laboratory and field work, 2 periods a week, first semester. Laboratory fee, \$5.00. (*Not given in 1922-1923.*)
- C132. Systematic Vertebrate Zoology.** HILTON
Prerequisite: Zoology B11. Lecture, 1 hour a week; field and laboratory work, 2 periods a week, second semester. A. Laboratory fee, \$3.00. (*Not given in 1922-1923.*)
- D105. Histology.** HILTON
Vertebrate. Prerequisite: Physiology B3 and B4, or Zoology B11 and B12. First semester. Class, *T, IV*; laboratory, *TTh, 1:15-4:10*. Laboratory fee, \$8.00. (*Not given in 1922-1923.*)
- D106. Histology.** HILTON
A continuation of D105. Prerequisite: Zoology D105. Second semester. Class, *T, IV*; laboratory, *TTh, 1:15-4:10*. Laboratory fee, \$7.00. (*Not given in 1922-1923.*)
- D107. Embryology.** HILTON
Prerequisite: Physiology B3 or Zoology B11. Second semester. A. Laboratory fee, \$8.00. (*Not given in 1922-1923.*)
- D108. Embryology.** HILTON
A continuation of D107. Prerequisite: Zoology D107. Second semester. Laboratory fee, \$7.00. (*Not given in 1922-1923.*)
- D115. Advanced Zoology.** HILTON
A continuation of Zoology C113. Prerequisite: Zoology C113. Field work and laboratory. Either semester. A. Laboratory fee, \$2.00 per hour. (*Not given in 1922-1923.*)

D120. Advanced Entomology. HILTON

A continuation of Zoology C119. Prerequisite: Zoology C119. Either semester. 2 or 3 hours each. A. Laboratory fee, \$2.00 per hour. (*Not given in 1922-1923.*)

D133. Comparative Neurology. HILTON

Invertebrate. Prerequisites: Zoology B11 and B12, or Physiology B3 and B4. Lecture, 1 hour a week; laboratory, 2 periods a week, first semester. A. Laboratory fee, \$6.00. (*Not given in 1922-1923.*)

D134. Neurology. HILTON

Vertebrate. Prerequisite: Zoology D133. Either semester. A. Laboratory fee, \$6.00. (*Not given in 1922-1923.*)

D215. Zoological Research. HILTON

Either semester. 2 to 5 hours. A. May be repeated for credit. Laboratory fee, \$2.00 per hour. (*Not given in 1922-1923.*)

D219. Entomological Research. NEEDHAM

Either semester. 2 to 5 hours. A. May be repeated for credit. Laboratory fee, \$2.00 per hour.

ADMINISTRATION

REGISTRATION

All students are required to register on one of the regularly announced days of registration preceding the opening of the class work of each semester. A fee of two dollars is charged for later registration and a payment of one dollar for any change in the list of subjects chosen. This latter payment is remitted in the case of new students registering for the first time, provided the changes are made within a week of the opening day of the registration period.

Students are admitted to those courses only for which they are formally registered.

MATRICULATION

Matriculation implies the meeting of all entrance requirements and the proven ability to carry college work. To this end the standing of all new students is provisional until after they have been in residence for one semester. At that time those are matriculated who have shown themselves in accord with the spirit of the College, who have done a satisfactory quality of work during their semester of residence and whose entrance units are acceptable.

ELECTION OF COURSES

On or before the first Saturday in January after the Christmas recess, and the first Saturday in June, all resident students must fill out a schedule listing their choice of subjects for the following semester.

Changes from this schedule may be made upon the payment of a fee of one dollar. Failure to prepare such a schedule at the appointed time subjects the student to a fee of two dollars. Students may not select less than twelve hours of work without the special permission of the Classification Committee.

PUBLIC ASSEMBLIES

Devotional exercises conducted ordinarily by the President or some member of the faculty, or by an invited guest, are held in the chapel Monday, Tuesday, Thursday and Friday mornings, and all students are expected to be present.

The Christian Associations meet at the chapel hour on Wednesday.

The policy of the College is to urge the students to associate themselves for worship with the Claremont Church or those in neighboring communities. For this reason there is no regular appointment for College worship on Sunday, though many forms of religious activity are maintained in connection with the churches.

REPORTS

A record of the scholarship and deportment of each student is kept, and deficient students are reported to the Registrar. Special reports are made at or near the Thanksgiving and Spring recesses; notification is sent to the parents of any students reported as deficient then, or at the end of the semester. Grades will be sent at any time upon request of parents.

The grade of scholarship is determined by the daily work of the class-room supplemented by frequent test reviews and by final examinations.

The aim is to encourage faithfulness and regularity in daily work rather than spasmodic effort to meet some single test.

PHYSICAL ATTENTION

The physical care of students is a matter of special concern to the College and the advantages of unusual attention and opportunity are offered. The climate of Southern California offers an out-of-door life the year round. Oversight is given to open-air athletics in all seasons. A regular physician is on the faculty of the College, under whose direction every student

on entering has a physical examination. Regular work in physical education is prescribed throughout the four years, and courses in Physiology and Hygiene are given. A large swimming pool is provided, access to which is free to all students, subject only to a semi-annual physical examination. The medical advice of the College physician is ordinarily available free of charge to all students, subject to certain conditions of hours and location of residence, the College meeting these bills; providing that all nursing, surgical dressing, and medicines are at the expense of the ill or injured. *The College, however, reserves the right to discontinue this individual medical service at any time without previous notice.* As a natural result of all this attention the health of the College is such as to give special assurance to all considering attendance at Pomona.

GENERAL REQUIREMENTS

Students are expected to be loyal to the spirit and purpose of the institution and to maintain regular attendance on all college appointments. Any who fall below grade in scholarship, or who for any reason do not prove desirable members of the student body, may be dismissed without specific charges.

It is assumed that, as far as possible, students will room at the College residence halls and board at the College commons. Any other arrangement for room or board must have the approval of the proper Dean. Lists of approved rooms are kept at the office of the Dean of the College. All rooms in the College residence halls are rented for the College year. Unless there is a written agreement to the contrary, it is assumed that rooms in private houses are rented for one semester. Change of rooms is made only by permission of the Deans.

To avoid misunderstanding between students and householders, it is advised that agreements regarding rooms be put in written form.

It is urgently pointed out to both students and parents that the value of a college education consists in no small degree in the

fullest participation in the college atmosphere and life. It is important, therefore, that all absence through the college year should be avoided. Some of the most important of the college values are lost by absences on Saturday and Sunday, on which days are centered particular and vital phases of the common life, and it is therefore urged that over-Sunday visits at home or elsewhere be avoided.

The use of tobacco is discouraged at all times.

Detailed information regarding college requirements is found in the *Manual of Procedure*, which should be secured by all students at the office of the Registrar.

EXPENSES

ROOMS IN COLLEGE RESIDENCE HALLS. A deposit of \$10.00 is necessary to secure a room and should accompany the application for the room. This amount is retained as a breakage fee, from which deductions will be made for individual and communal damages to the building, the balance being returned at the end of the year. Rooms are assigned to new students in order of application.

The charge for rent does not include the use of the halls during the Christmas and Spring vacations when the halls are closed. The residence halls are opened the Saturday before the opening of the College year and closed the second day after commencement.

Each room is provided with the necessary furnishings, including rug for the floor; the only articles to be furnished by the student are towels, and linen and covers for a single bed.

The College reserves the right to dismiss from a dormitory without rebate any student who becomes a disturbing or undesirable occupant.

SMILEY HALL. This dormitory for men has both single rooms, and suites of three rooms accommodating two students.

As the rooms are equally desirable, each occupant pays \$100.00 for the College year.

RESIDENCE HALLS FOR WOMEN. Harwood Court, the new and beautiful residence hall for women, in which is included the dormitory known as Strong Hall, has just been completed. It has both single and double rooms, as well as suites for two or three students. For each individual the charge is \$150.00 for the College year.

The cottages have double rooms, each student paying from \$120.00 to \$150.00 per year, according to the location of the room.

Women occupying College residence halls or cottages are expected to board in the College dining-room, and rooms are rented in these buildings only in conjunction with the advance payment for board. Freshman women not resident in their own homes are also expected to board in the College dining-room.

BOARD. In the College dining-room provision is made for the boarding of students under the direct management of the College. The rates are the lowest consistent with good quality of food and service, the approximate cost for 1922-1923 being \$265.00. Arrangements may be made to pay either monthly or by the semester.

In addition to the College dining-room there is a cafeteria dining-room seating approximately one hundred students. The quality and cost of food in the two rooms are the same.

Men or women wishing to board at other approved places than the College dining-room or the cafeteria may do so by permission of the proper Dean, except as specified above.

SUMMARY OF EXPENSE. The necessary expense for the College year, exclusive of fees for special courses and expenses which are purely personal, is about \$600.00. Bills are due each semester in advance, and must be paid upon registration. If parents desire bills to be sent home, written request should be made before the beginning of a semester.

No student will be retained in the institution or given honorable dismissal whose bills are not paid or arranged for.

TUITION

All tuition bills must be paid at the beginning of each semester. Until this has been done cards entitling the student to admission to classes will not be issued.

GENERAL CHARGES

Regular tuition, including all general privileges, Music and Drama Course Ticket, Library privileges, etc. per semester.....	\$100.00
Tuition for students carrying less than twelve hours of work, for each such hour, per semester, exclusive of above general privileges.....	8.50
Tuition for graduate students, per semester.....	75.00

CHARGES IN MUSIC AND ART¹

For those paying regular tuition:

For each half-hour private lesson in music per week, per semester.....	35.00
For each two-hour class lesson per week in art, per semester	18.00

For those carrying less than twelve hours of college work, exclusive of work in music or art:

For one half-hour private lesson in music per week, per semester.....	50.00
For two half-hour private lessons in music per week, per semester.....	85.00
For each half-hour private lesson in excess of two, per semester	35.00

¹Students may register for Applied Music at any time, equitable charges being arranged upon application.

For each two-hour class lesson in art per week, per semester, for the first lesson.....	25.00
For each additional lesson.....	18.00
<i>For juveniles under high school age, and not given college privileges:</i>	
For one half-hour private lesson in piano, per week, per semester.....	25.00
For two half-hour private lessons in piano per week, per semester.....	47.50
Sketch class, per semester.....	1.00

FEES

Graduation fee, \$10.00.

Physics, \$5.00; Bacteriology, \$5.00; Chemistry, deposit for breakage, \$10.00.

Laboratory fees range from \$4.00 to \$15.00. The exact fee for a given course is stated in connection with the description of that course under Departments of Instruction; in advanced courses only does it exceed \$10.00.

A Gymnasium fee of \$5.00 to cover incidental expenses is required of all College men.

Women are charged a fee of \$5.00 for Gymnasium and sports; a fee of \$3.00 for sports only.

A visitor's fee of \$5.00 is required from those visiting a course of study and \$3.00 for each additional course.

Practice fees for the use of College pianos and organs:

PIANO

One-half hour daily, per semester (voice students).....	\$ 3.50
One hour daily, per semester.....	6.00
Two hours daily, per semester.....	12.00
Three hours daily, per semester.....	18.00

GRAND PIANO

One hour daily, per semester.....	\$ 9.00
Additional hours at same rate.	

GREAT ORGAN IN BRIDGES HALL

One hour weekly, per semester.....	\$ 7.50
More or less time at same rate.	

PRACTICE ORGAN

Two hours weekly, per semester.....	\$ 6.00
Three hours weekly, per semester.....	8.25
Four hours weekly, per semester.....	10.50
Five hours weekly, per semester.....	12.75
Six hours weekly, per semester.....	15.00

VIOLIN

Room without piano, one hour daily, per semester.....	\$ 1.50
Additional hours at same rate.	

PEDAL ORGAN

One hour daily, per semester.....	\$ 9.00
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PEDAL PIANO

One-half the rate for other pianos.

REFUNDS

FEES. A refund determined by the head of the department concerned, is made in case of withdrawal from laboratory courses before the middle of the semester.

TUITION. A refund is granted on account of illness to those leaving before the middle of the semester, amounting to one-half of the tuition charged.

ROOM. Students withdrawing from College during a semester, receive a refund pro-rated from the time the room is re-rented. Special students withdrawing before the middle of the semester receive a refund of tuition and fees pro-rated for the portion of the semester attended.

HONORS AND PRIZES

COMMENCEMENT EXERCISES

The honor of speaking on Commencement Day is awarded three members of the graduating class who have distinguished themselves in scholarship and who possess literary and oratorical ability.

THE PHI BETA KAPPA SOCIETY

Upperclassmen "who are of good moral character, who are candidates for the degree of Bachelor of Arts, and who are distinguished for breadth of culture and excellence of scholarship" are eligible to membership in the Phi Beta Kappa Society.

FINAL HONORS AT GRADUATION

Students who average 50 per cent more credits than hours are graduated "cum laude." Those averaging 75 per cent more credits than hours are graduated "magna cum laude." Should any of the latter group, in the judgment of a representative faculty committee, stand out for their significant scholarship, they are graduated "summa cum laude."

SCHOLARSHIP HONORS

Honors for scholarly attainment are awarded at the end of each semester to matriculated students, candidates for the Bachelor of Arts degree.

These honors are of three classes, High Honors, General Honors and Departmental Honors. The grades in Physical Education and Applied Military Science are not considered in the award of these honors, save that they must be at least passing.

High honors are given at the end of each semester to students who average 85 per cent more credits than the hours for which they were registered.

General Honors are given at the end of each semester to students who average 70 per cent more credits than the hours for which they were registered.

Departmental Honors are awarded by heads of departments in consideration of the quality of work done by students in the department during the semester concerned. In the interest of maintaining the full value of these honors, the departments shall not be expected to award them in any considerable numbers, the normal limit of five per cent of the enrollment being regarded as the one to be followed, save as the small enrollment in the department, or an exceptional quality of work, warrants deviation.

Honors are granted in no case where a student has failed in any subject.

PRIZES

The following prizes are offered for proficiency in the work of the several departments:

THE LLEWELLYN BIXBY MATHEMATICS PRIZE: A prize for excellence in Analytic Geometry and Calculus; open to all students completing both Mathematics B13 and C115. A prize of ten dollars is given by Mr. Llewellyn Bixby.

THE DOLE PRIZES: A prize debate, open to the Sophomore class, upon some subject selected by the faculty, is arranged for the close of the second semester. First and second prizes of ten and five dollars, respectively, established by the late Mr. J. H. Dole, in memory of his brother, Mr. W. B. Dole, are endowed by Mr. J. Albert Dole and Mrs. A. M. Dole.

THE HAGER PRIZES: Prizes for best three essays on a foreign missionary subject, open to all students. Prizes of ten dollars each are endowed by Mr. and Mrs. C. R. Hager.

THE KINNEY PRIZES: A prize declamation contest, open to the members of the Freshman class, occurs toward the end of the first semester. First and second prizes of ten and five dollars, respectively, are given by Mrs. H. N. Kinney.

THE LORBEER PRIZES: Prizes for the best essay on the subject, "How to Keep Well;" open to all who take the course in Anatomy and Physiology. First and second prizes of fifteen and ten dollars, respectively, are given by Dr. Thomas L. Lorbeer, '03.

THE MONCRIEFF ASTRONOMY PRIZE: A prize given to the student in the first year course in Astronomy, taken regularly in class, whose interest in the study and proficiency in the observatory work are indicated by the best notebook kept in accordance with the teacher's suggestion. A prize of ten dollars is given by Miss Flossie C. Moncrieff, '11.

THE MUDGE LATIN PRIZES: Prizes for excellence in Latin offered to those completing Latin D114. First and second prizes of ten and five dollars, respectively, are endowed by friends of the College.

THE VAILE PRIZES: Prizes for the best essay or oration on the general subject of Agriculture in Southern California; open to the Junior and Senior classes. First and second prizes of fifteen and ten dollars, respectively, are endowed by Mr. Charles S. Vaile.

SCHOLARSHIPS AND BENEFICIARY AID

The income of certain funds is used toward paying the tuition fees of students who are in pecuniary need, and, by authorization of the trustees, is distributed annually through a committee of the faculty. Scholarship aid is given only to students who are or intend to become candidates for a degree from Pomona College, who maintain a high standard of honor, who are economical in their habits, who do not use tobacco, who are regular in their attendance upon college exercises, and whose scholarship meets the following condition: The maintaining, after the first semester of the Freshman year, of at least "C" grade.

Applicants for aid who have not yet entered College should forward to the Chairman of the Committee on Student Aid and Labor, a formal application accompanied by two letters, one from parent or guardian and the other from principal or teacher, giving information concerning need, character and attainments. They should also send a certified statement of their scholastic record. All applications for aid must be renewed annually on or before May first.

Aid may be withdrawn at any time from students who prove not to have conformed to the conditions, and is permanently withdrawn after the second forfeiture due to low standing or unsatisfactory deportment.

Recipients of scholarship aid may be called upon to assist the College in ways that do not interfere with their studies.

Awards are made from the income of the following funds:

THE FRANCIS BANCROFT MEMORIAL FUND, \$1,500. Given by Mrs. James T. Ford of Los Angeles, California, in memory of her father.

A FUND OF \$2,500. Given by L. H. Barrows.

THE H. G. BILLINGS MEMORIAL SCHOLARSHIP, \$1,000. Given by Mrs. E. A. Billings of Los Angeles, California, in memory of her husband.

THE MABEL S. BRIDGES MEMORIAL SCHOLARSHIP, \$3,500. Given by Mr. and Mrs. A. S. Bridges of San Diego, California, in memory of their daughter. Available for women.

* THE BRISTOL MEMORIAL FUND, \$400. A fund raised as a memorial to the Reverend Sherlock Bristol.

THE HENRY HERBERT BROWN SCHOLARSHIP FUND, \$1,000. Given by Mrs. Fannie E. Brown of Los Angeles, California, in memory of her son.

A FUND OF \$856.78. Given by the Class of 1918 towards the founding of a scholarship.

THE AGNES K. CRAWFORD MEMORIAL FUND, \$1,000. Given by David R. Crawford and William Crawford of Pomona, California, in memory of their mother.

A FUND OF \$2,600. Given by Mary E. Elwood of Redlands, California.

A FUND OF \$2,500. Given by Rev. James T. Ford of Los Angeles, California.

A FUND OF \$1,000. Given by Mrs. Margaret Fowler of Pasadena, California.

A GENERAL FUND OF \$475.

A FUND OF \$5,000. Given by Charles E. Harwood, LL.D., of Upland.

THE THOMAS F. HOWARD MEMORIAL SCHOLARSHIP, \$2,000. Given by Dr. and Mrs. H. G. Brainerd of Los Angeles, California, in memory of Mrs. Brainerd's father.

A FUND OF \$2,000. Given by Henry L. Kuns of La Verne.

A FUND OF \$1,800. Given by Miss Jean Loomis, '97, of Nanking, China.

THE HOWARD J. MILLS FUND OF \$3,000. Given by Mrs. Howard J. Mills of Los Angeles, California, in memory of her husband.

THE ONTARIO CONGREGATIONAL CHURCH FUND, \$161.50. Given by the Ontario Congregational Church towards the founding of a scholarship.

A FUND OF \$5,000. Given by Mrs. Loraine H. Page of Pomona, California. (\$3,000 of this may at some time be used for other purposes.)

THE ARTHUR WARREN PHELPS MEMORIAL SCHOLARSHIP, \$2,000. Given by Mrs. C. S. and Mr. C. A. Phelps of Claremont, in memory of their son and brother.

THE LYDIA PHELPS MEMORIAL FUND, \$4,000. Given by Hiram E. Phelps of Ontario, California, in memory of his wife.

THE PILGRIM CHURCH OF POMONA FUND, \$989.44. Given by the Pilgrim Congregational Church of Pomona towards the founding of a scholarship.

THE JOHN D. POTTER MEMORIAL FUND, \$2,000. Given by Mrs. S. T. Potter of Westboro, Massachusetts, in memory of her husband.

A FUND OF \$1,800. Given by Dr. Anna H. Searing of Escondido, California.

THE CLYDE H. SHIELDS SCHOLARSHIP, \$200 (to be increased). Given by R. P. Shields of San Diego, in memory of his oldest son, who was drowned in 1894, when about twenty-one years of age.

A FUND OF \$2,000. Given by Miss Susan E. Thatcher of San Diego.

A FUND OF \$1,000. Given by Mrs. Maria T. Wardwell of Plymouth, Connecticut.

A FUND OF \$2,000. Given by Henry S. West of Los Angeles.

The College also administers a loan fund, established by George H. DeKay, Jr., in memory of his brother Frelin Campbell DeKay. By means of this fund, it is possible to co-operate in a moderate way, and temporarily, with the pressing need of students. This fund has been of such important service as to indicate the great need for the increase of such resources, which in the hour of special emergency may often save a student to a college career.

SELF-SUPPORT

A committee of the faculty endeavors to find employment for students needing to earn a part of their expenses. Many are thus helping themselves by various forms of labor such as janitor work, waiting on tables at the Commons, general house work, gardening and the like. The most desirable positions are in general secured by upperclassmen who have proven themselves good workers and good students, and those coming to the College for the first time should be content if any work which they can satisfactorily do is secured for them. Students in any case should come prepared to pay all bills for at least one semester. Their record during this semester will be a large factor in deciding what opportunities for self-help will be open to them. Applications for aid in securing employment should be addressed to the Chairman of the Committee on Student Aid and Labor.

BUILDINGS AND EQUIPMENT

The College grounds consist of about one hundred and fifty acres, of which sixty are included in Blanchard Park, about ten in Alumni Field, thirty in a prospective Athletic Field, and the remainder in the campus proper.

There are nineteen buildings on the campus, heated from a central heating plant.

The Mary L. Sumner Hall, named in memory of the wife of Professor Charles B. Sumner, has been removed from its original site and is being remodeled for administrative and faculty uses.

Holmes Hall, a memorial of Cyrus W. Holmes, Jr., of Monson, Massachusetts, reconstructed in 1916 in conformity with more modern plans for buildings and campus, is devoted mainly to chapel, recitation rooms, and various offices of administration.

Pearsons Hall of Science, the gift of Dr. D. K. Pearsons, contains the museum, and the laboratories and lecture rooms of the departments of physics, biology, zoology and psychology. In this building, too, is the Business Office.

The Library, the gift of Mr. Andrew Carnegie, is an imposing structure, exceptionally well adapted to the purposes for which it was built.

The Frank P. Brackett Observatory, the gift of Mr. Llewellyn Bixby, '01, is designed throughout to be of service to the student in the direct study of the stars.

The Albert K. Smiley Hall is the dormitory for men. It has both single rooms and suites of three rooms, affording accommodations for eighty students. The dormitory has all modern conveniences and is completely furnished.

Harwood Court is a large and adequate dormitory for women, which has recently been completed. It affords accommodations for about two hundred women.

The College also owns several cottages, in which similar accommodations can be secured. These facilities have been made

possible by large and generous gifts by friends of the College, whose names they bear.

Rembrandt Hall, the first section of the Art Building, is devoted chiefly to the work of the Department of Art. The upper floor contains studio and work rooms; the lower floor a convenient auditorium of moderate size for exhibits and assemblies.

The Mabel S. Bridges Hall of Music, the gift of Mr. and Mrs. Appleton S. Bridges, of San Diego, offers opportunities for the study of music unexcelled in Southern California.

The Gymnasium, comprising three commodious structures, affords ample equipment for physical training and includes a large swimming pool.

The Claremont Inn has, besides two large student dining rooms, accommodations for eighty guests.

The Open-Air Theater, built to take advantage of the natural setting of Blanchard Park, though uncompleted, has at present a seating capacity of over 4000.

The Harwood Hall of Botany, the gift of Mr. A. P. Harwood, of Upland, contains lecture rooms and laboratories for the use of the Department of Botany. Adjoining it is the Agricultural and Botanical Laboratory, consisting of a greenhouse, a lath house and a central classroom.

The Memorial Training Quarters, just completed, stands as a remembrance of the Pomona College men who lost their lives in the Great War. It represents the gift of the parents of one of those men, Sheldon Gerry, '17, supplemented by those of alumni, students and friends.

The Mason Hall of Chemistry, completed this year, the gift of Mr. W. S. Mason, is unsurpassed in structure and equipment for the study of Chemistry.

The Crookshank Hall of Zoology, in process of construction, is the gift of Mr. D. C. Crookshank. It will provide amply for the needs of the Department of Zoology.

The Marine Laboratory, located at Laguna Beach, has nine private rooms for special workers and two general laboratories, as well as storerooms, work rooms and aquarium room.

Various smaller buildings add to the completeness of the College plant.

THE LIBRARY

The College possesses the following library collections in addition to the main library: The Cook-Baker Biological Library, the Astronomical Library, the New England Collection, the Mason California Collection, and the Viola Minor Westergaard Art Collection.

The main library and the New England and Mason California Collections are housed in the Carnegie Library Building, the Cook-Baker Library (Zoology section) in Pearsons Hall of Science, and (Botany section) in Harwood Hall, the Astronomical Library in the F. P. Brackett Observatory, and the Westergaard Art Collection in Rembrandt Hall.

The main library, of 39,973 books and 29,511 pamphlets, has been carefully selected, and represents a working library of exceptional value.

The library is a depository for the publications of the Carnegie Institution of Washington, and for the United States Government documents. It is liberally supplied with technical, scholastic and news periodicals.

DEPARTMENTAL ORGANIZATIONS AND CLUBS

THE POMONA COLLEGE GLEE CLUB, the Pomona College WOMEN'S GLEE CLUB, and the Pomona College BAND are organizations under the general direction of the Department of Music.

THE ASTRONOMICAL SOCIETY aims to help the observatory in its work, in building up its library and in the issuing of its publications. The associate membership is drawn from the alumni and friends of the College, while the active membership includes the students of astronomy together with members of the faculty and resident graduates.

THE BIOLOGICAL SEMINAR. The aim of the Biological Seminar is chiefly the review and discussion of recent and important researches as published in the biological journals. Membership is limited to students of the Junior and Senior classes chosen for excellent scholarship and marked interest in the work of the department.

THE MATHEMATICAL SOCIETY. The Society of Pure and Applied Mathematics meets every month for presentation and discussion of results of study and investigation in the physical sciences and mathematics. It is open to advanced students who are interested in these subjects and who agree to take an active part in its work.

THE LITERATURE SEMINAR. The purpose of the Literature Seminar is the presentation from a graduate or professional point of view of those masterpieces of literature which have dominated the content and form of other literatures.

THE HISTORY CLUB consists of a student group which meets fortnightly and is organized to study special phases of recent and contemporary history, particularly in the field of international relations.

LE CERCLE FRANCAIS, composed of students making a specialty of the French language, meets fortnightly for practice in French conversation, presentation of papers and discussion of topics relating to the various aspects of French life and literature.

EL CIRCULO ESPANOL, composed of students making a specialty of Spanish, meets fortnightly for practice in Spanish conversation and the presentation of appropriate papers in the language, bearing upon the literature and life of the Spanish world.

IL CIRCOLO ITALIANO is open to students of Italian, for practice in conversation and the study of the life, literature and arts of Italy.

STUDENT ACTIVITIES

THE ASSOCIATED STUDENTS. This association harmonizes all student activities. Its officers are chosen by the student body from their own number. All important questions are considered by its executive committee, which is composed of those prominent in such varied lines as athletics, oratory, and the editorship of the Student Life. This body has charge of inter-collegiate as well as inter-class relations.

WOMEN'S ORGANIZATION. The women of the student body form a voluntary organization, electing their own officers and committees and holding regular meetings. This organization considers and promotes the social relations of the women.

CHRISTIAN ASSOCIATIONS. Branches of the Young Men's Christian Association and the Young Women's Christian Association are well organized and doing effective work. Representation in the inter-collegiate and state conventions and the visits of active workers from outside serve to maintain interest in the work both at home and abroad.

THE POMONA COLLEGE LITERARY SOCIETY, composed of both men and women, meets every two weeks. The work is varied in character, covering all literary lines.

THE POMONA COLLEGE DEBATING CLUB is composed of men. It meets every two weeks for prepared and impromptu debates on the live issues of the day.

THE ALPHA KAPPA is a society for women, giving drill in debates and familiarity with important current topics.

THE POMONA COLLEGE LYCEUM, composed of men, is also a debating club, and meets bi-weekly.

THE AREOPAGUS is composed of men. The object of the society is to promote efficiency in public speaking, debate, and parliamentary drill. Meetings are held every two weeks.

THE DELTA LAMBDA is a debating society for women, meeting bi-weekly.

THE MASQUERS is an organization of students, whose purpose is the study and presentation of plays and the general promotion of the dramatic enterprises of the undergraduate body.

THE COSMOPOLITAN CLUB has for its object the promotion of friendly relations among the various nationalities represented in Pomona College. Membership is open to any student or member of the Faculty whose home is outside of the United States or who has at some former time resided in a foreign country.

ATHLETICS. The direction and financial management of athletics rest with the Director of Athletics, who has associated with him as an advisory body the Athletics Council, composed of three members of the faculty and three students. Under the general manager there is a student manager for each sport.

Alumni Field, consisting of about ten acres, has been developed by the alumni into athletic grounds unsurpassed in the Southwest in equipment and beauty of setting. First-class tennis courts, an excellent track, baseball and football fields, also hockey and basketball courts are within the limits of the campus, and athletic exercises and field sports are encouraged by the officers of the institution.

A swimming pool, of the standard size for water polo, and fully equipped with modern appliances, is open to all students. An invariable condition to the use of the pool is a semi-annual medical examination.

Students are required to maintain a certain standard of excellence in all their studies in order to represent the College on any of its athletic teams or other organizations coming before the public.

PUBLICATIONS

The stated publications of the College are issued as numbers of the *Pomona College Bulletin*, which is published bi-monthly. These include:

The Annual Directory of Faculty and Students.

The Annual Catalog.

The Annual Register of Alumni.

The Annual Register of Faculty and Students.

The Annual Announcement of Courses.

Alumni and departmental publications are:

The Pomona College Quarterly Magazine, devoted to the interests of the College and Alumni.

The Journal of Entomology and Zoology, published under the auspices of the Department of Zoology.

The Publication of the Astronomical Society of Pomona College, published under the auspices of the Department of Astronomy.

The College Letter, issued by the College for the information of the alumni.

STUDENT PUBLICATIONS

The Student Life is published tri-weekly by the student body and is devoted to current affairs.

The Scribbler is a literary magazine issued four times a year.

The Metate is published each year by the Junior class, and contains material appropriate to a college annual.

The Association Hand Book, which contains material of value, especially to new students, is issued at the beginning of the year by the Christian Associations.

BUREAU OF APPOINTMENTS

A Bureau of Appointments is conducted in connection with the office of the Secretary of the Faculty for the benefit of members of the College who desire to teach after graduation. The purpose of the Bureau is to maintain a list of available positions and to recommend from the applicants registered those who are qualified for specific positions.

An opportunity is also offered graduates of the College who are already engaged in teaching, to register their present positions and to indicate whether they desire a change, and if so, under what conditions. An effort is made to further the desires of graduates so far as made known. The services of the Bureau are entirely gratuitous. Communications should be addressed to Professor M. E. Churchill, Secretary of the Faculty.

SUMMARY OF STUDENTS

NOVEMBER, 1922

Graduate students	26
Seniors	145
Juniors	178
Sophomores	197
Freshmen	213
Specials	19
TOTAL ENROLLMENT	778

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